

Fig. 1

NORMAL CELL

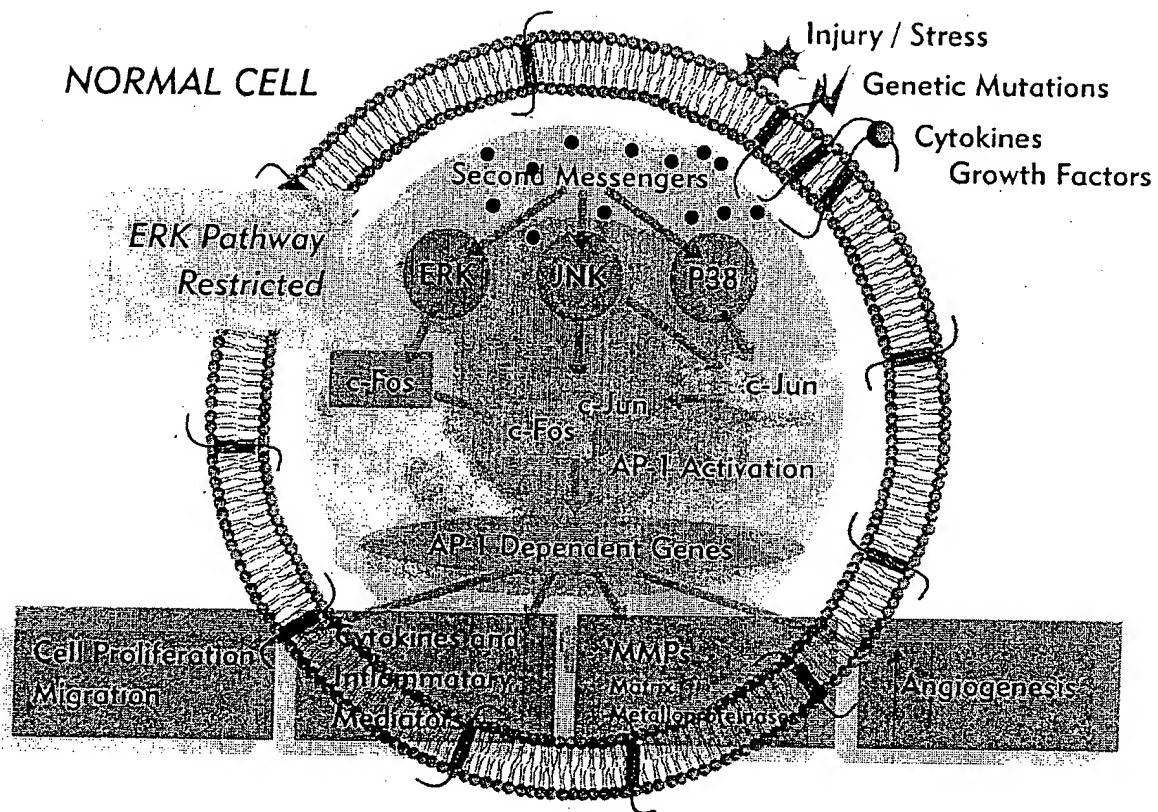


Fig. 2

005007 07050500

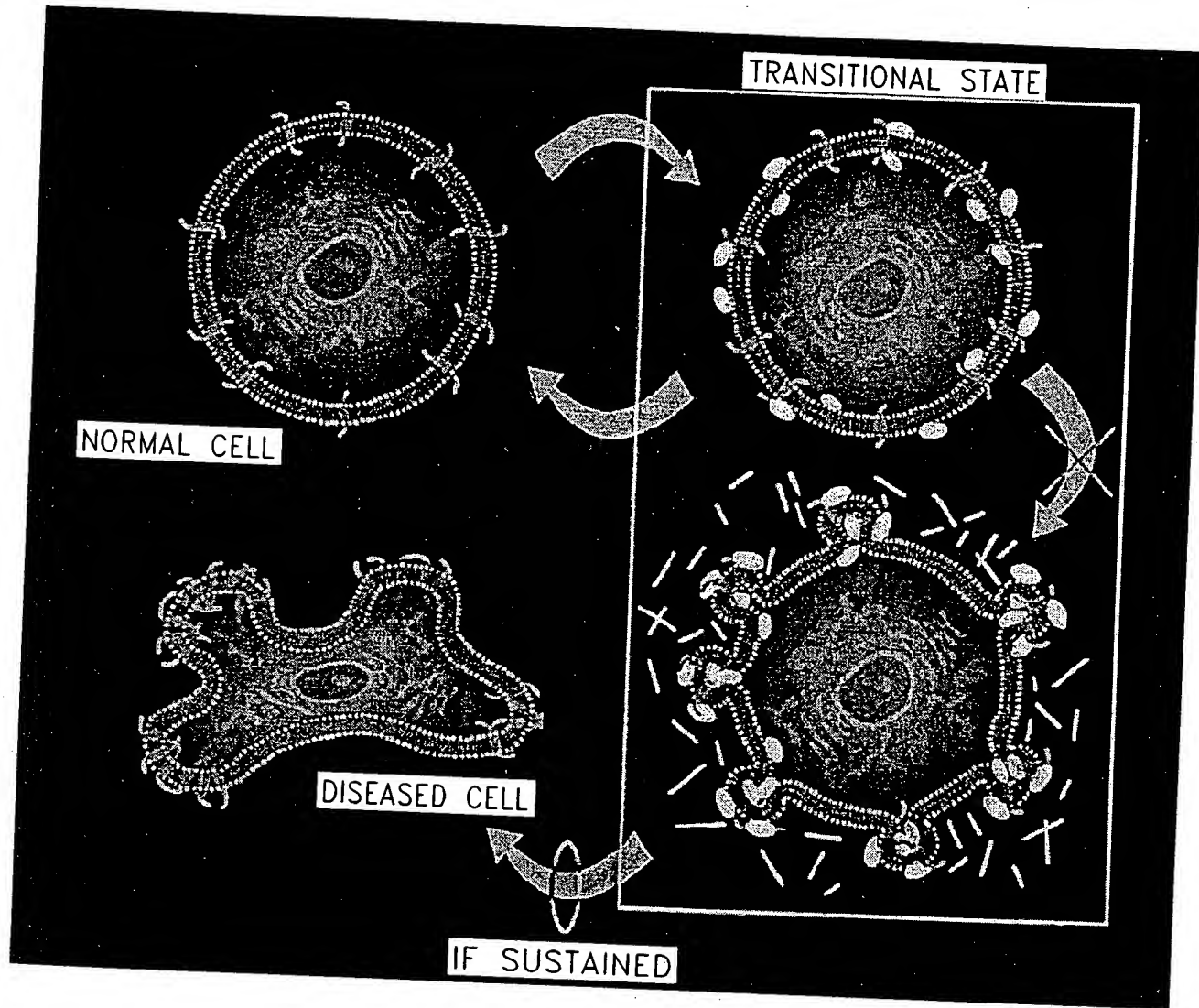


Fig. 3

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-Focal Adhesions (-FA)

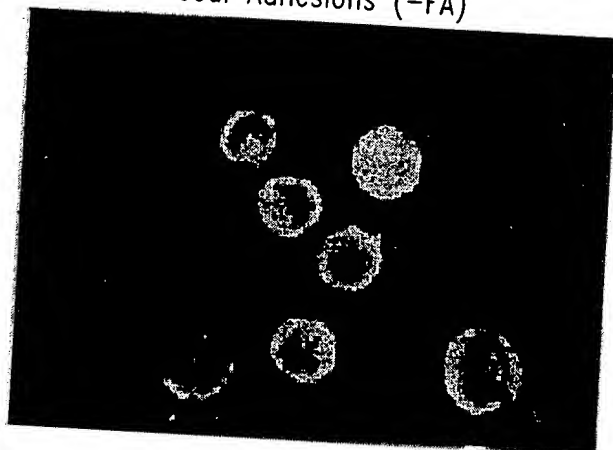


Fig. 4A

+Focal Adhesions (+FA)

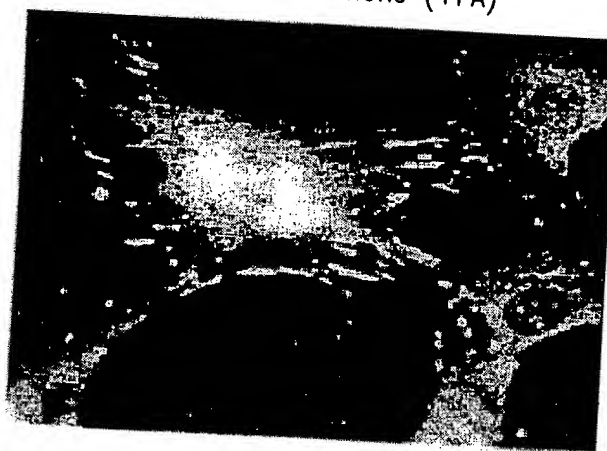


Fig. 4B

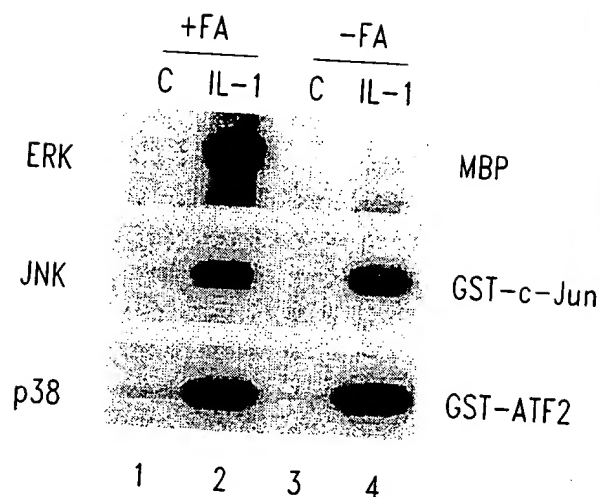


Fig. 4C

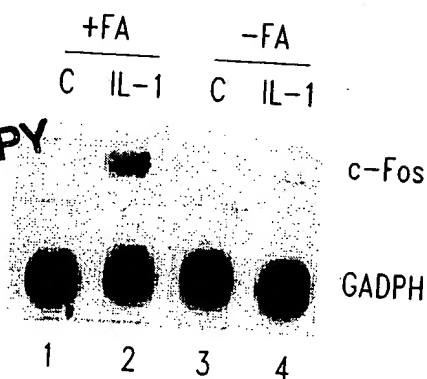


Fig. 4D

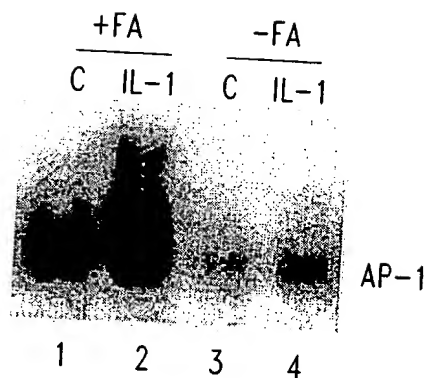
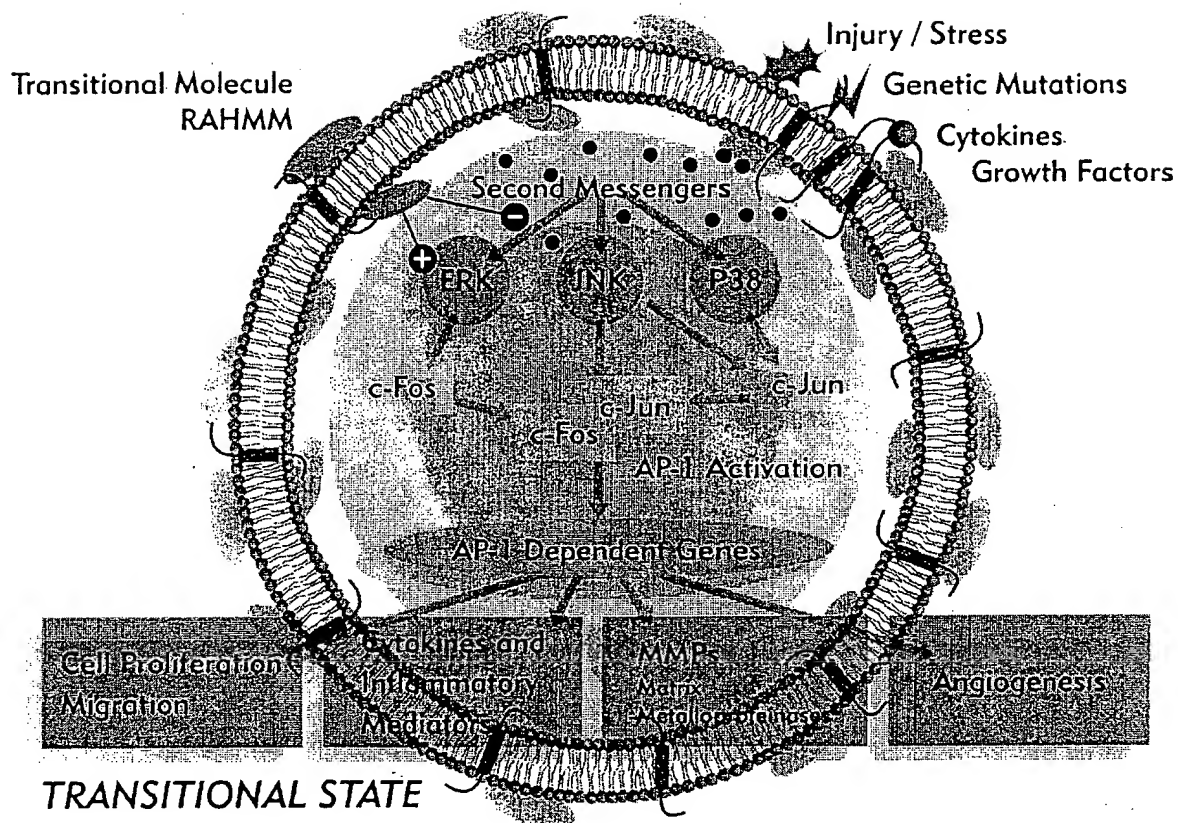


Fig. 4E

09665010-100500

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Fig. 5

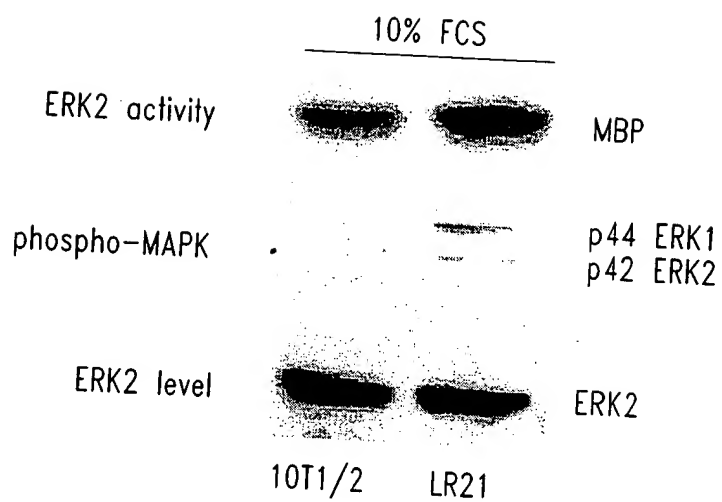


Fig. 6A



Fig. 6B

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005007 07058950

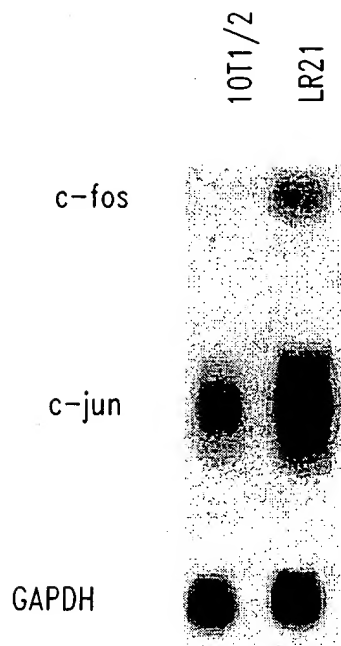


Fig. 7A

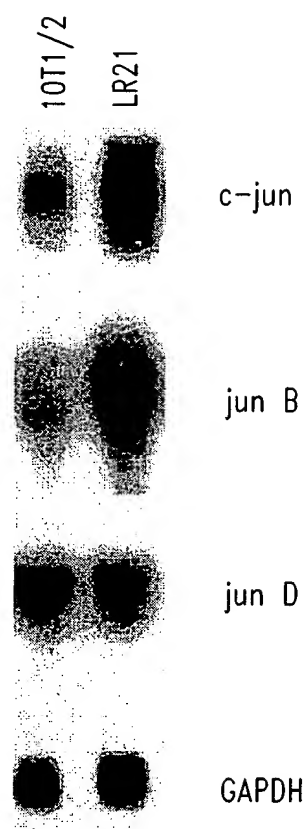
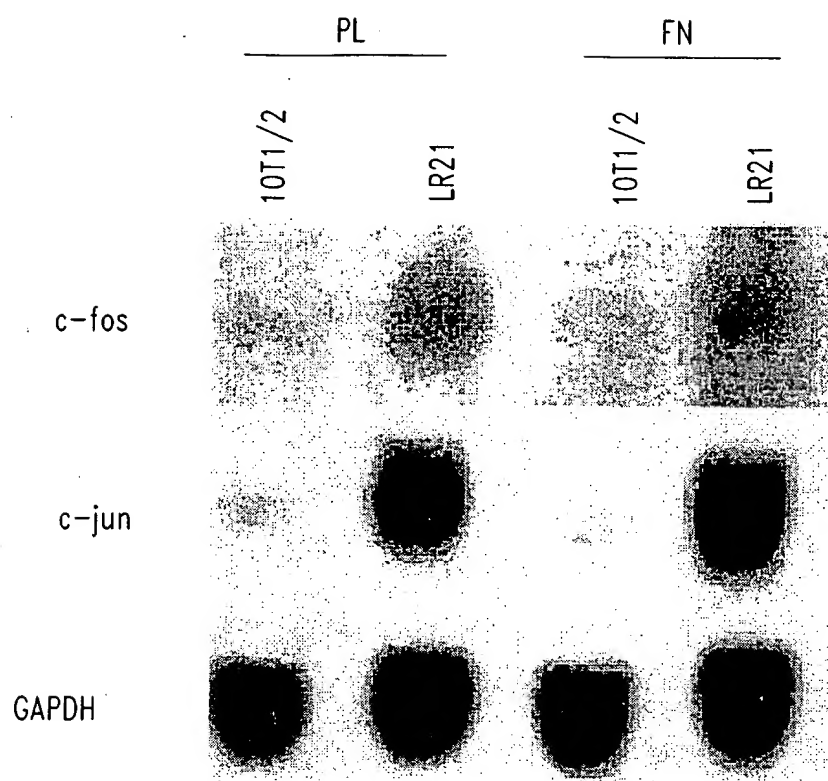
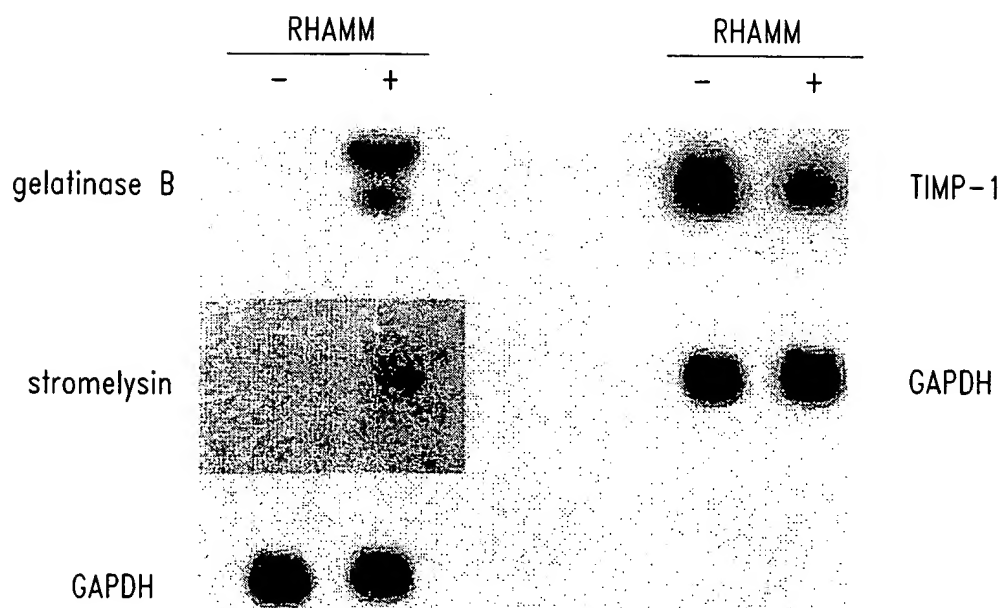


Fig. 7B

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*Fig. 8**Fig. 9*

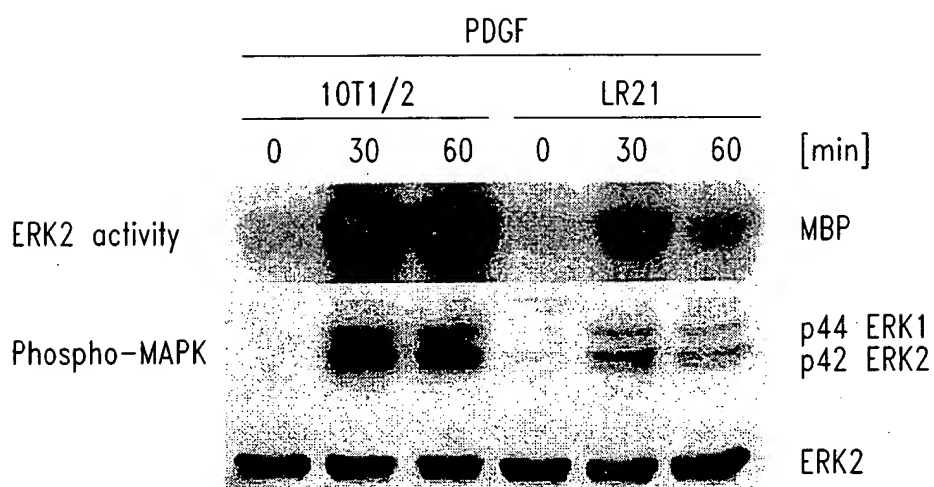


Fig. 10

005007" 07050960

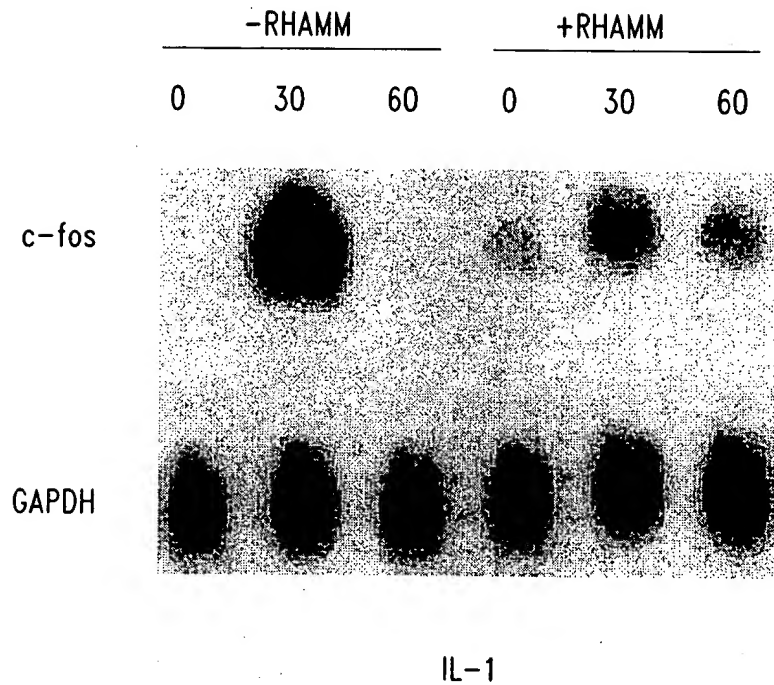


Fig. 11A

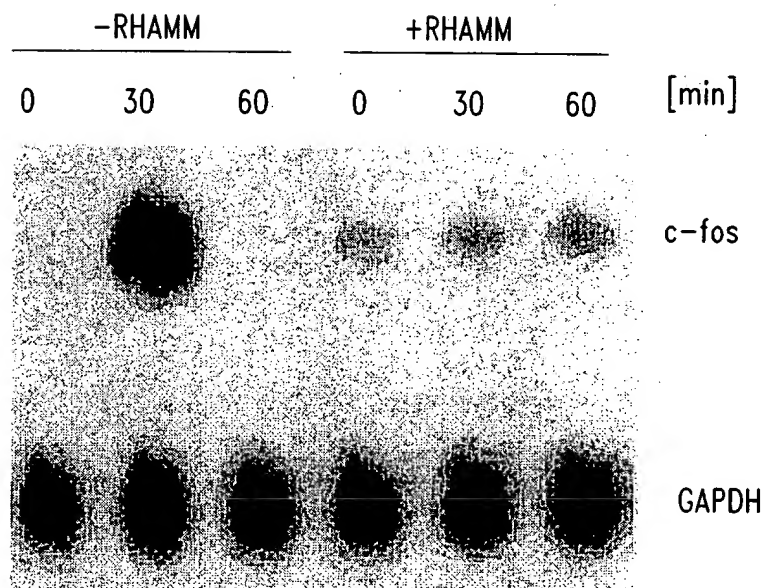
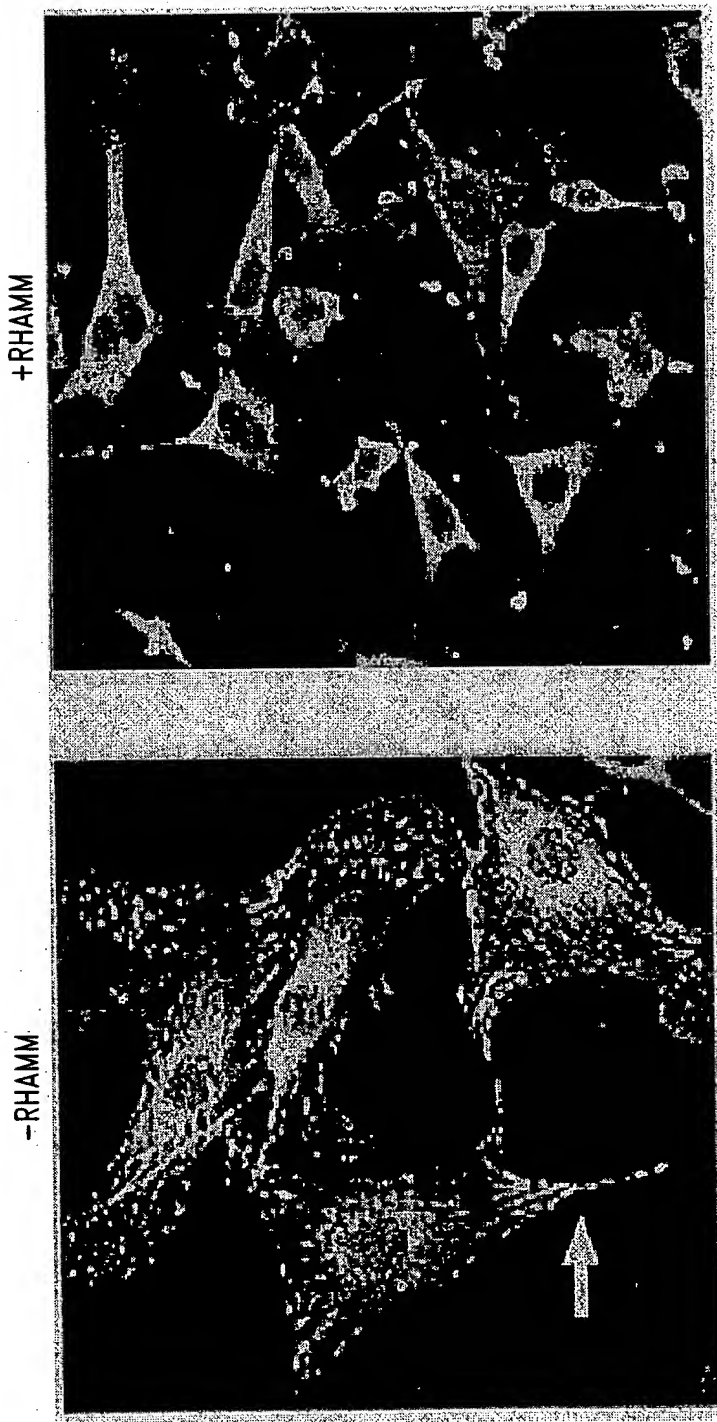


Fig. 11B

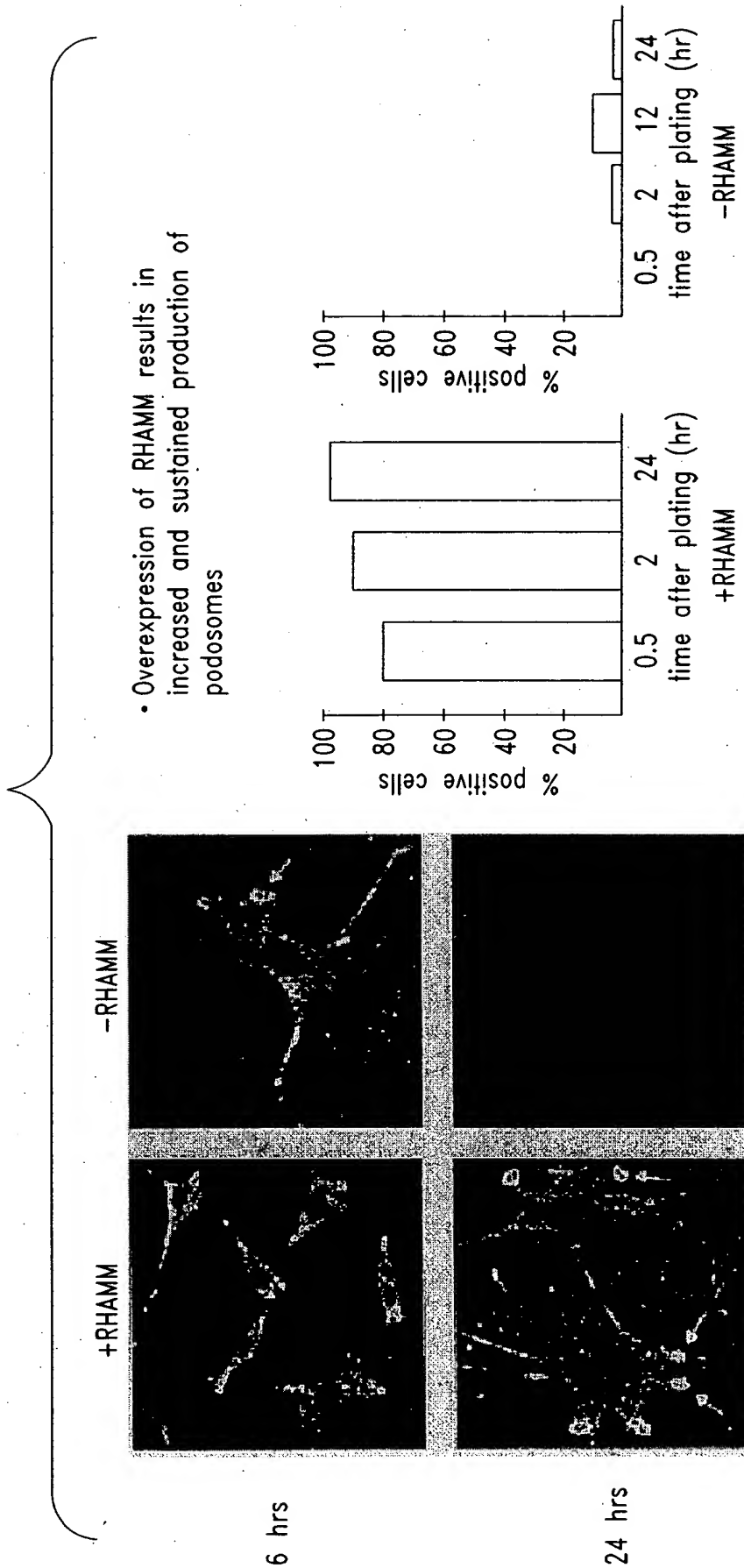
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+RHAMM cells make less focal contacts than their parental cells (-RHAMM)

Fig. 12A

Fig. 12B



- In most cells responding to injury, podosomes are formed and disassembled rapidly (-RHAMM, 6 vs. 24 hrs)

Fig. 13

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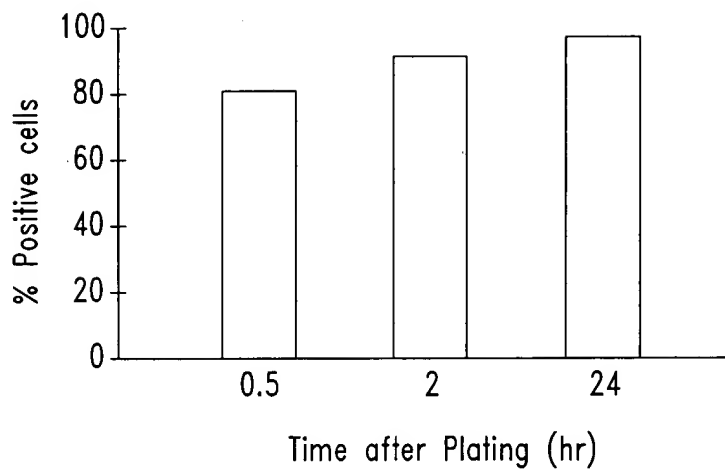


Fig. 14A

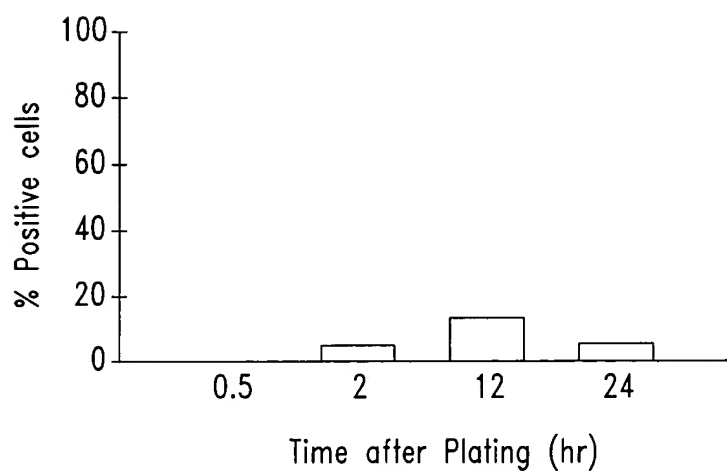


Fig. 14B

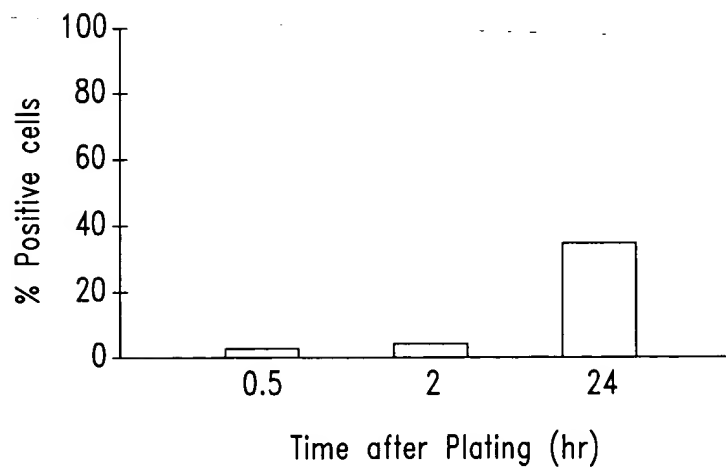


Fig. 14C

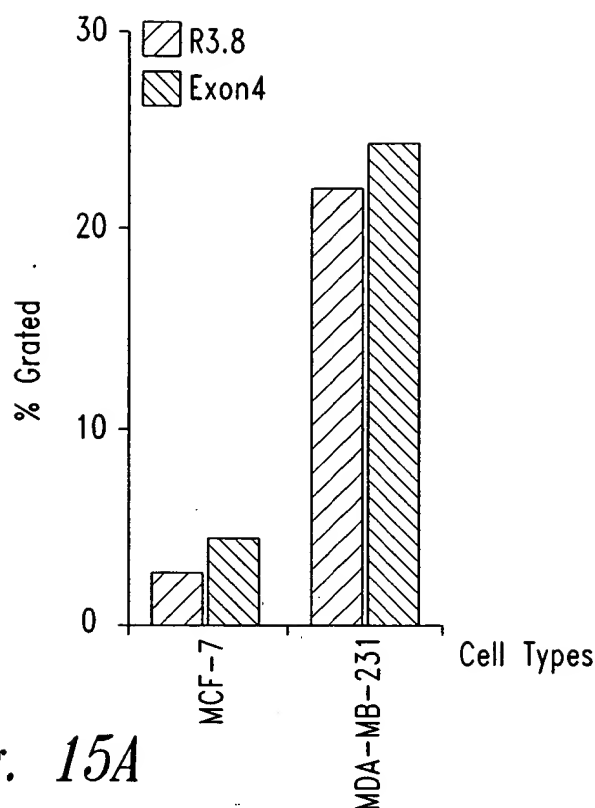


Fig. 15A

RHAMM Peptides

Murine Exon3 sequence:

N-terminal ---KLQATQKDLTESKGKIVQLEGKL--- 23aa

SEQ ID. NO. 14

For Exon3 antibody, used the peptide sequence:

(C) KLQATQKDLTESKG

SEQ ID. NO. 15

Murine Exon4 sequence:

N-terminal ---VSIEKEKIDEKCETEKLLLEYIQEIS--- 25aa

SEQ ID. NO. 16

For Exon4 antibody, used the peptide sequence:

(C) VSIEKEKIDEKC/S

SEQ ID. NO. 17

For antibody to Human RHAMM v5, used the peptide sequence:

(C) LKSKFSENGNQKNL

SEQ ID. NO. 18

Homology between three peptides from murine (M) and human (H) RHAMM (as used to raise antibody)

1) Exon3	M:	KLQATQKDLTESKG	as in	SEQ ID. NO. 15
	H:	---V---RS-E-Q---		SEQ ID. NO. 19
2) Exon4	M:	VSIEKEKIDEKC	as in	SEQ ID. NO. 17
	H:	-----S	as in	SEQ ID. NO. 17
3) v5	M:	--A----D-H---M		SEQ ID. NO. 20
	H:	LKSKFSENGNQKNL	as in	SEQ ID. NO. 18

Fig. 15B

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peptide 1

peptide 2

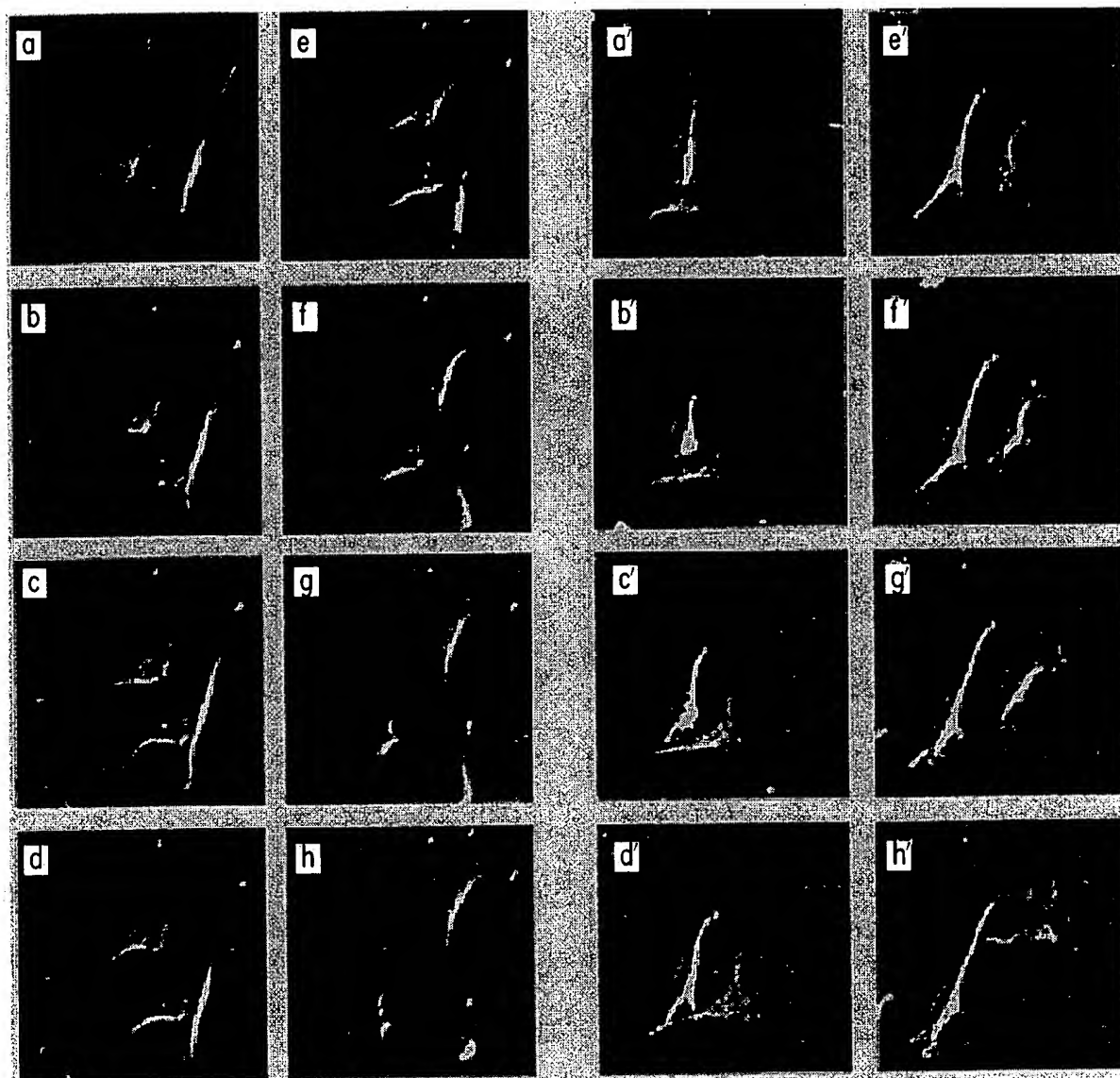


Fig. 16A

Fig. 16B

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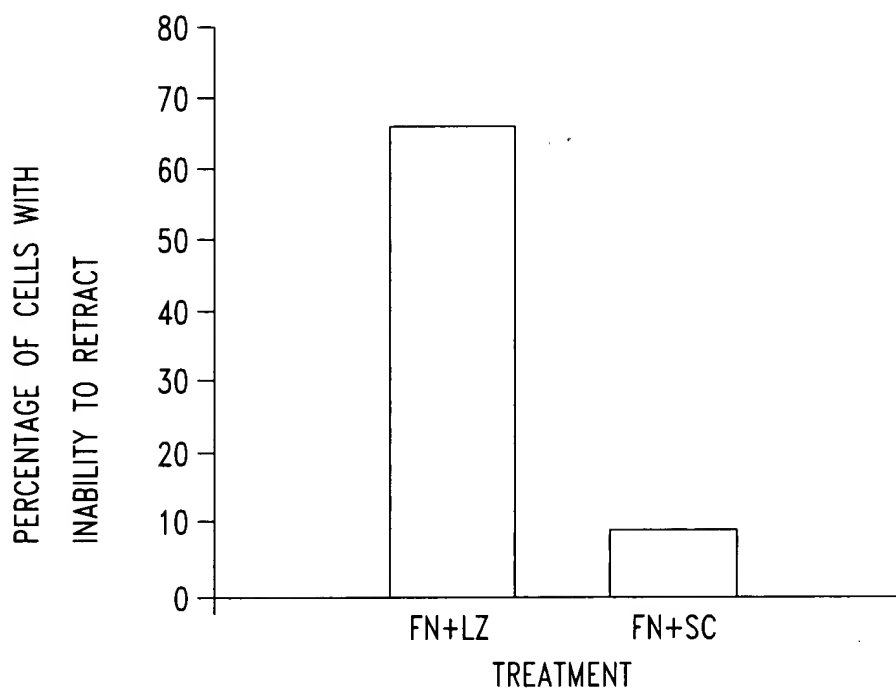


Fig. 16C

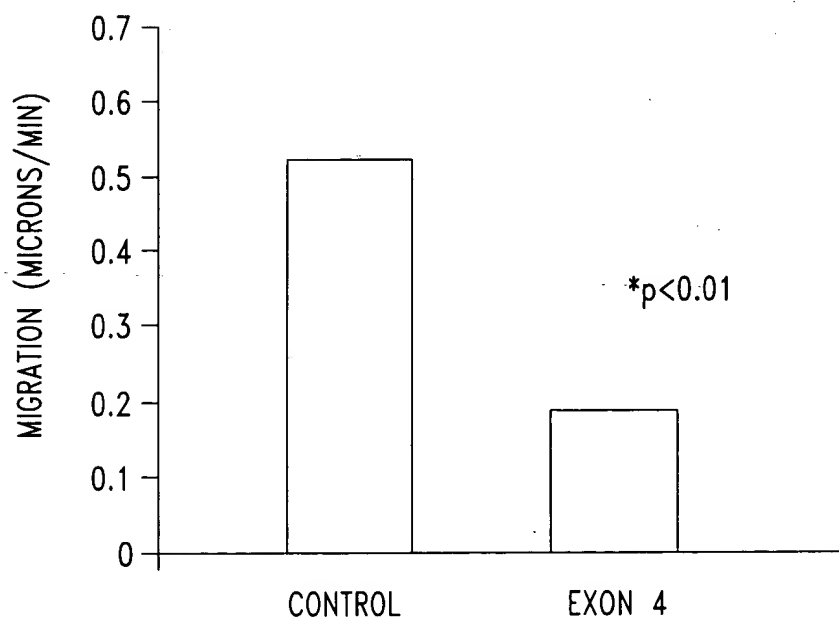


Fig. 16D

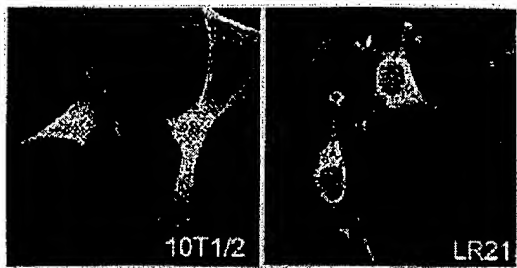


Fig. 17A

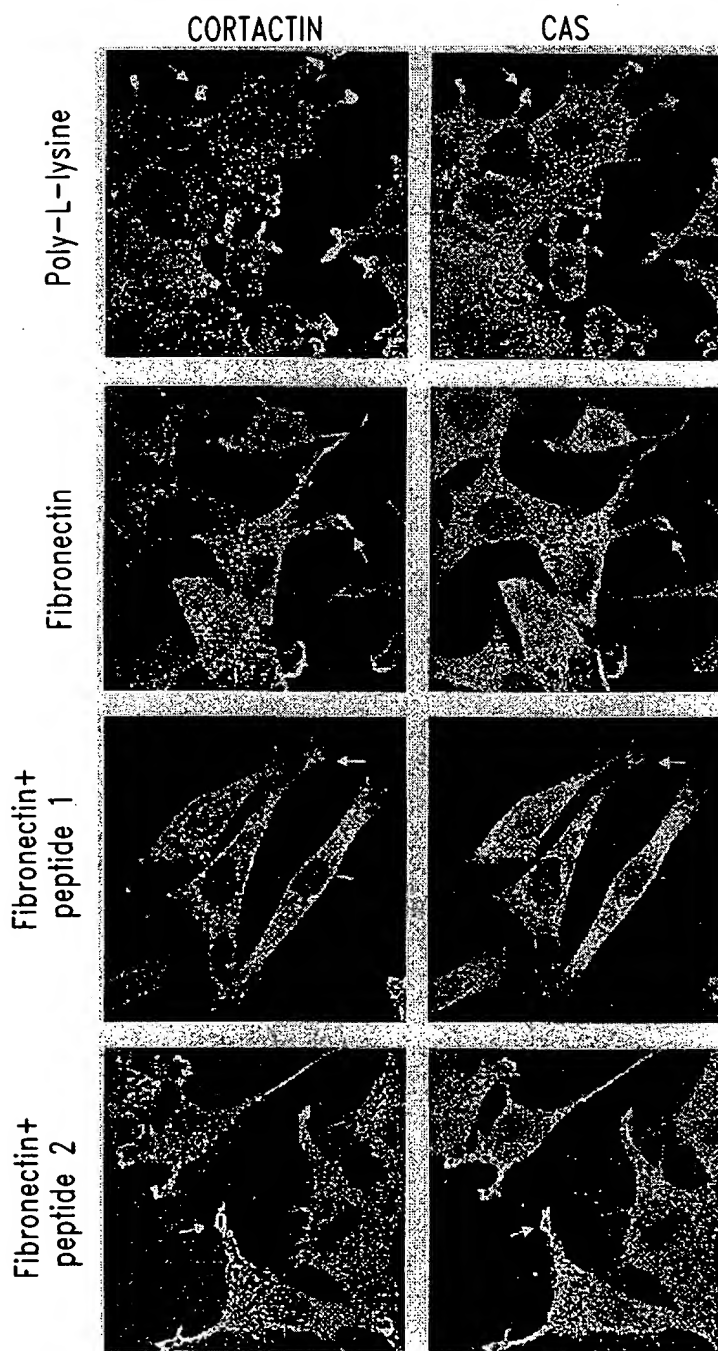


Fig. 17B

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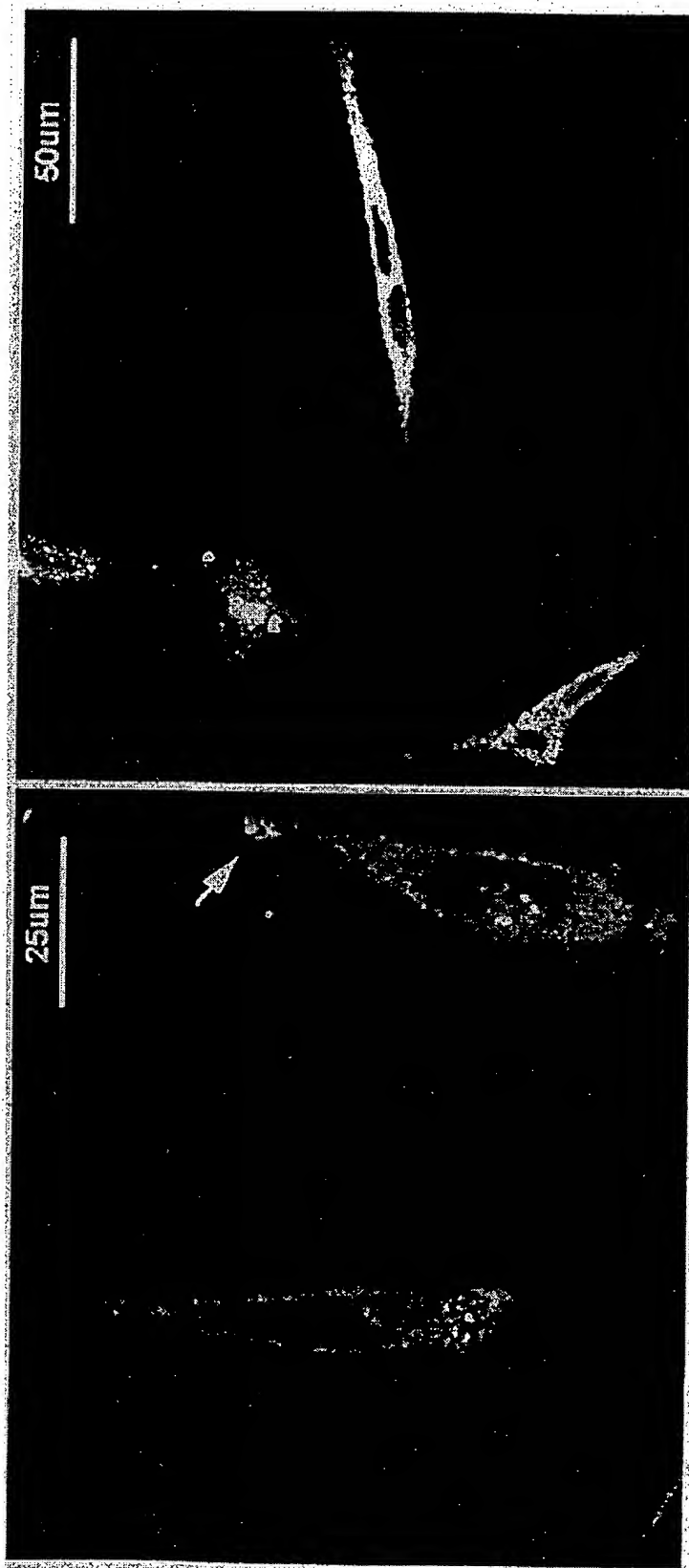


Fig. 18

31 AVAILABLE COPY

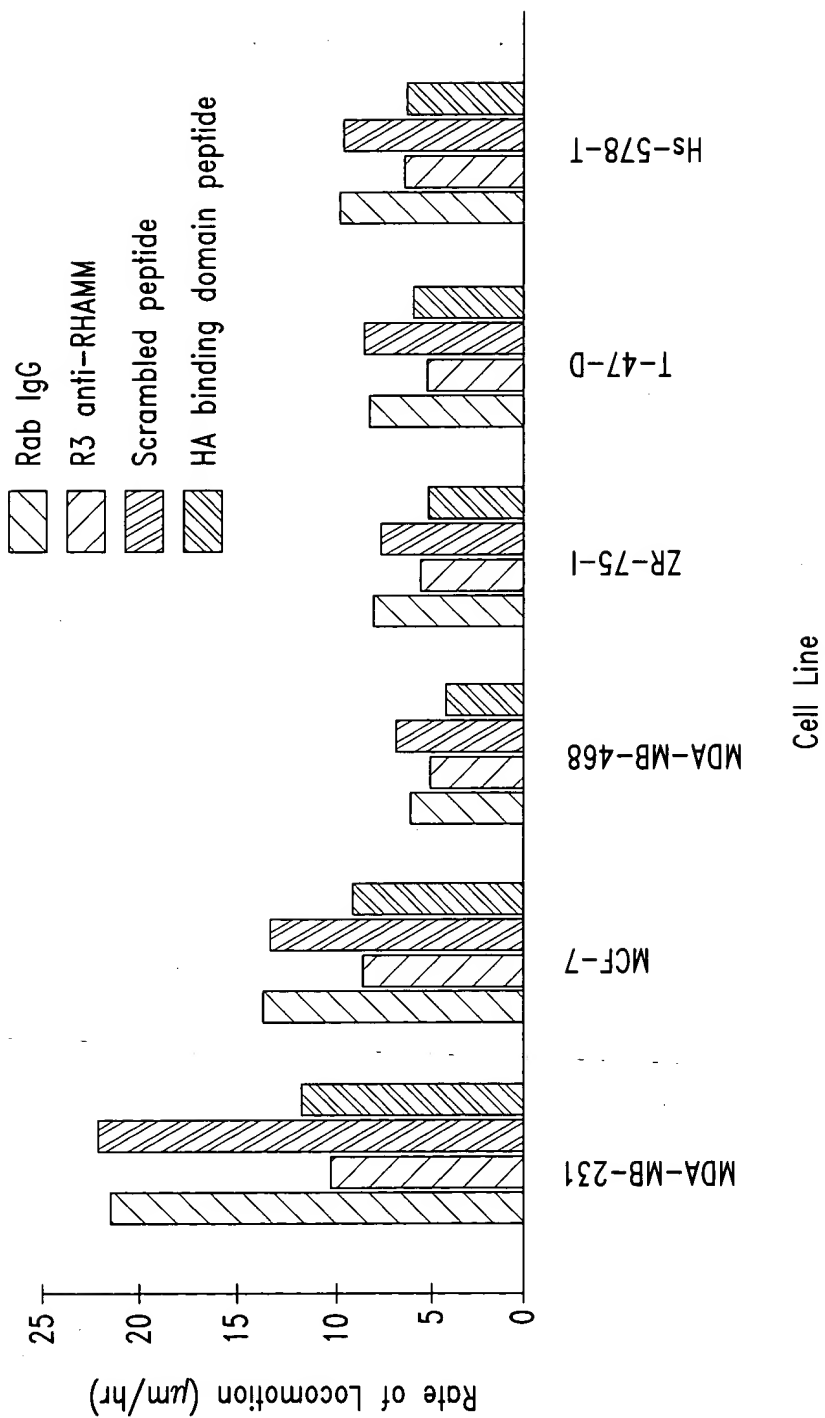


Fig. 19

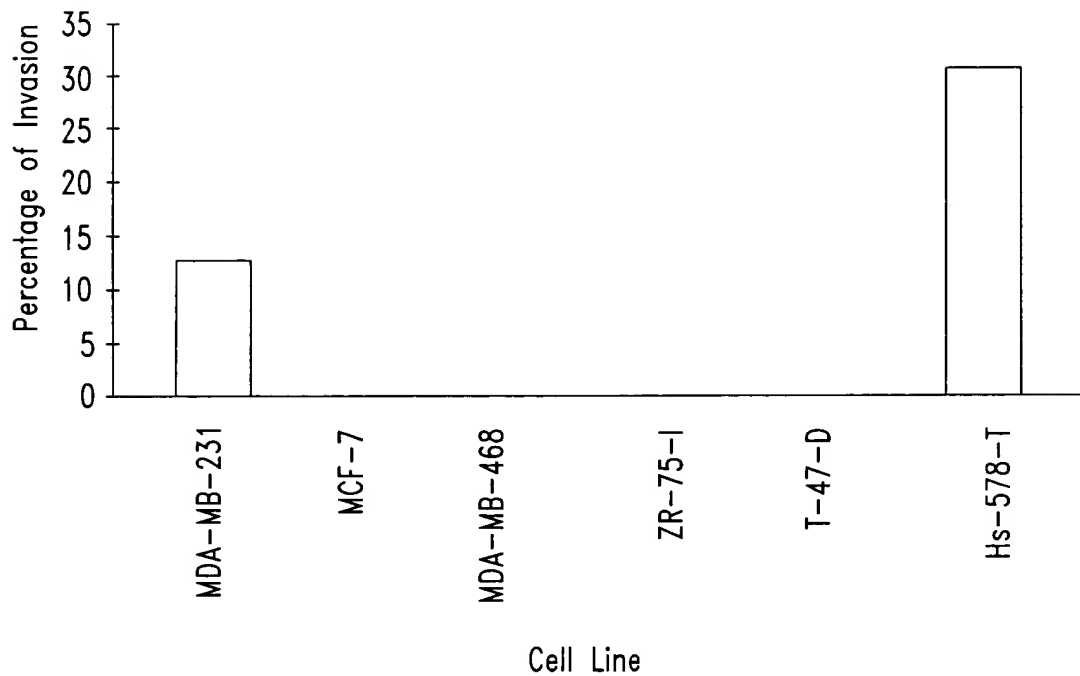


Fig. 20A

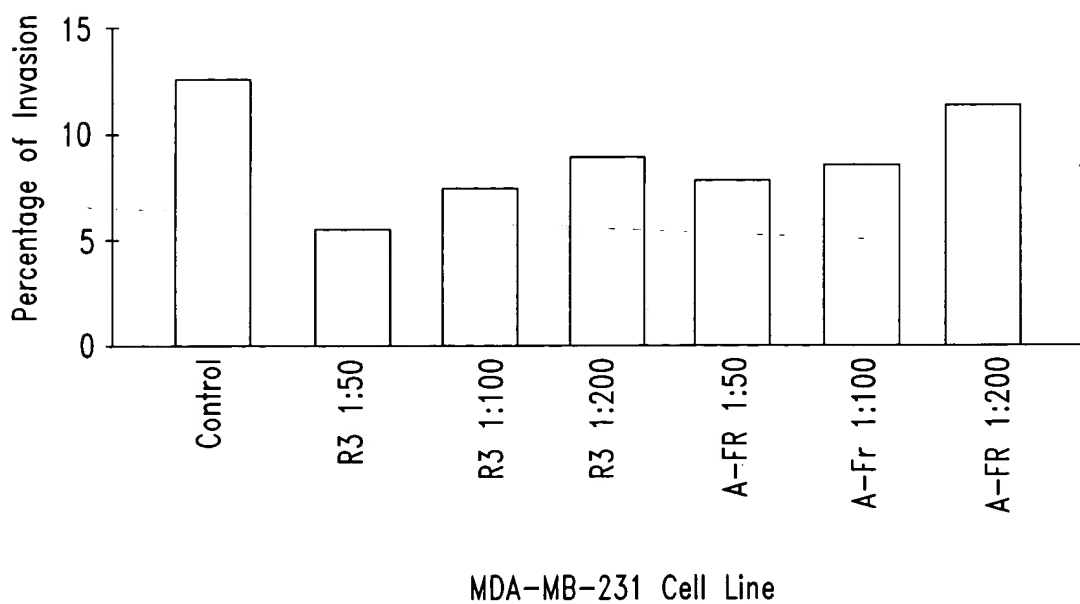


Fig. 20B

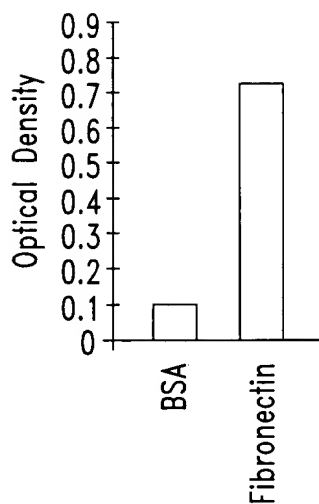


Fig. 21A

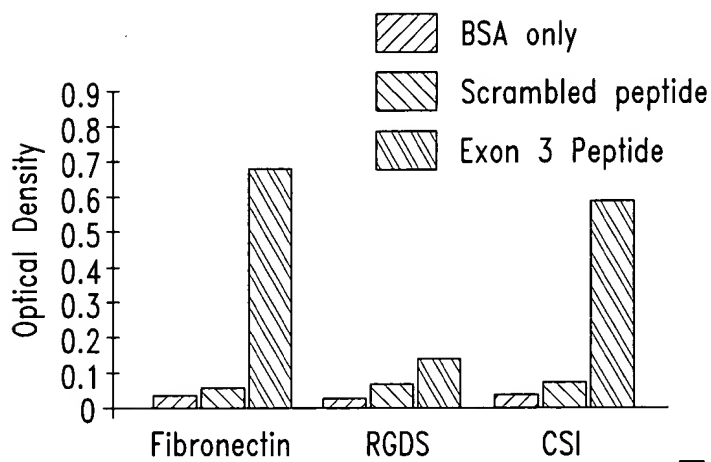


Fig. 21B

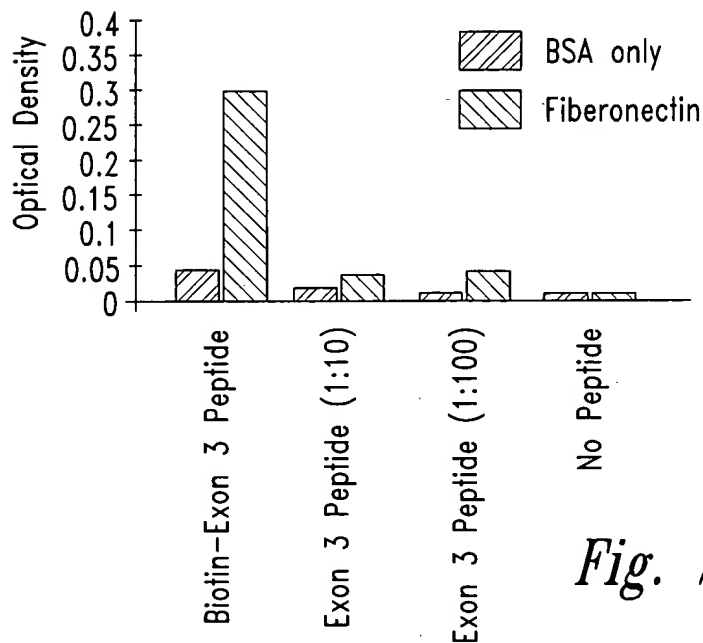


Fig. 21C

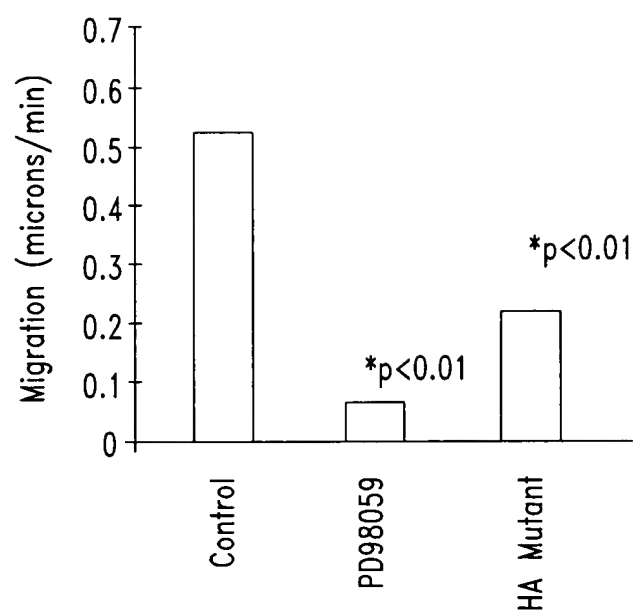
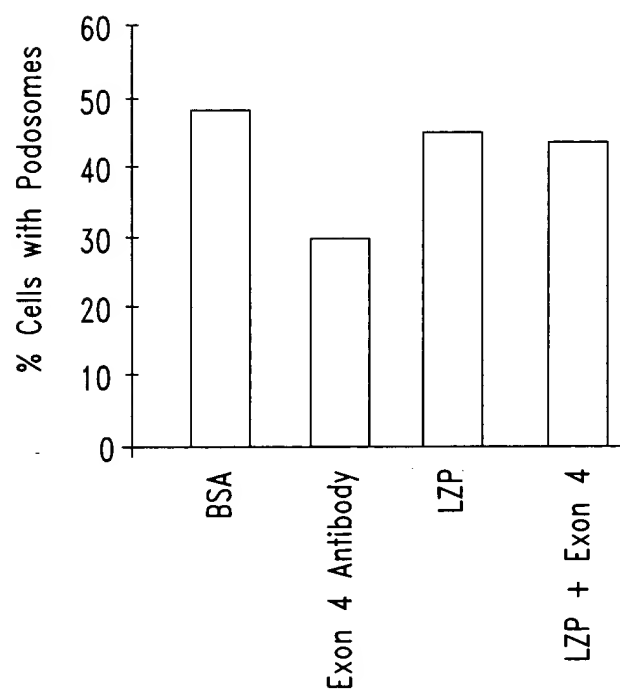


Fig. 22



Effects of Exon4 Antibody and LZIP
on the Podosome Formation of LR21

Fig. 24A



Fig. 23A

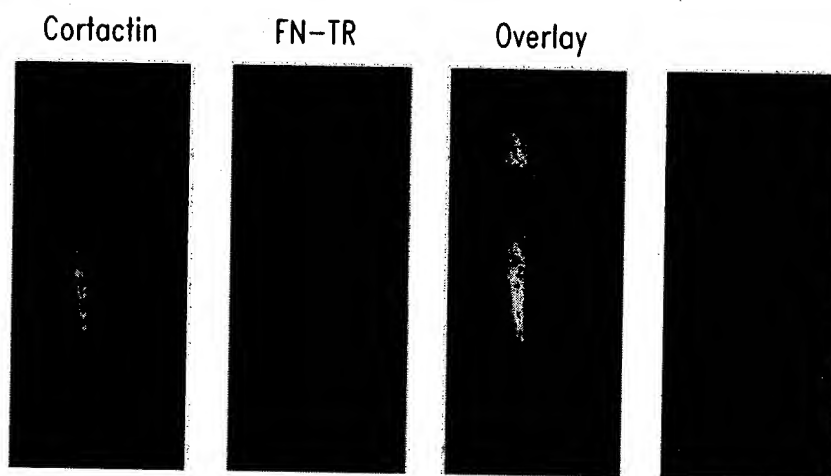


Fig. 23B

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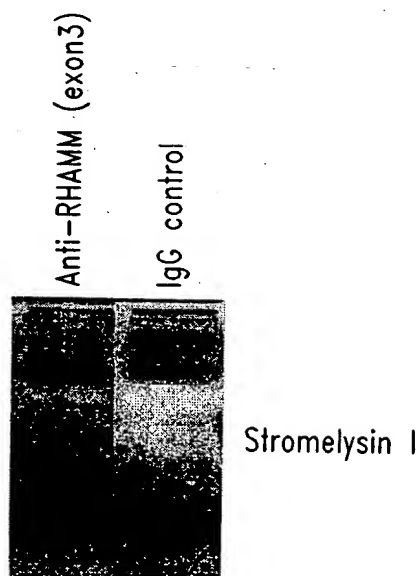


Fig. 24B



Fig. 25A

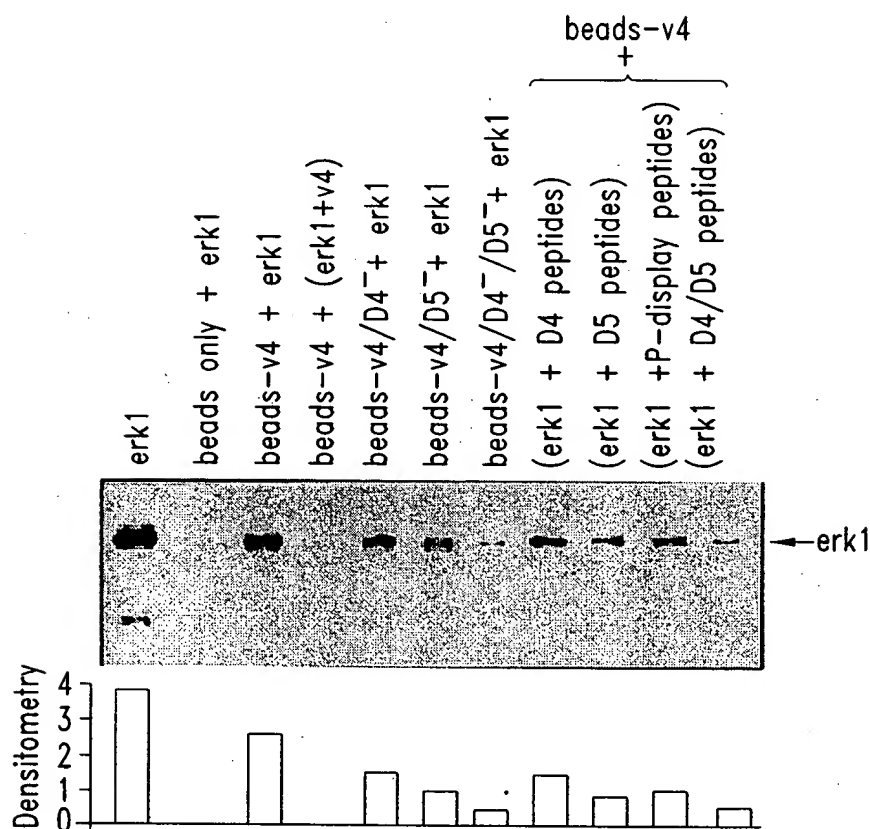


Fig. 25B

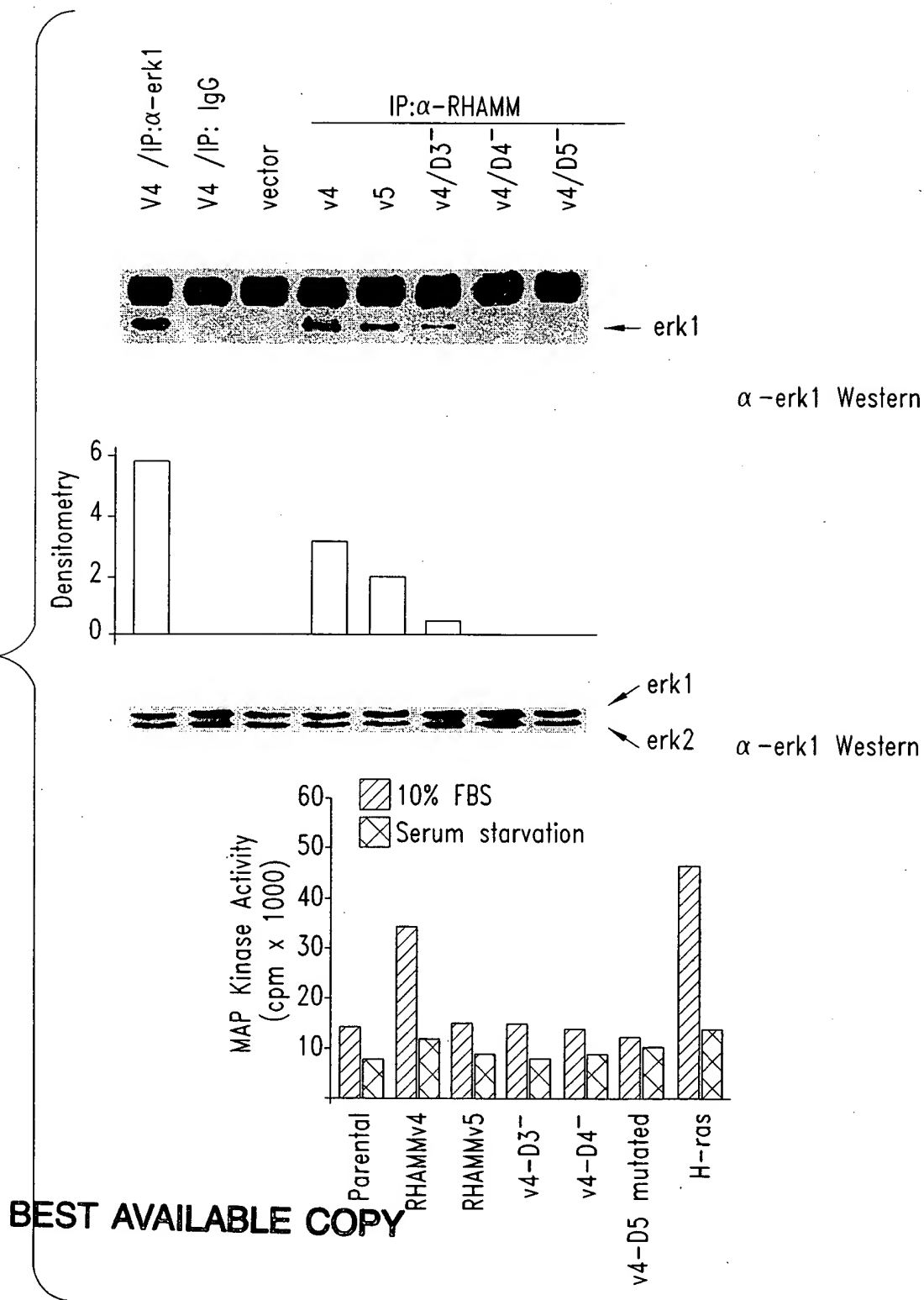


Fig. 25C

A: RGGGRGRRR
 B: RGGRGGR
 C: RGGRGGR
 D: RGGGGGGR

Fig. 26A

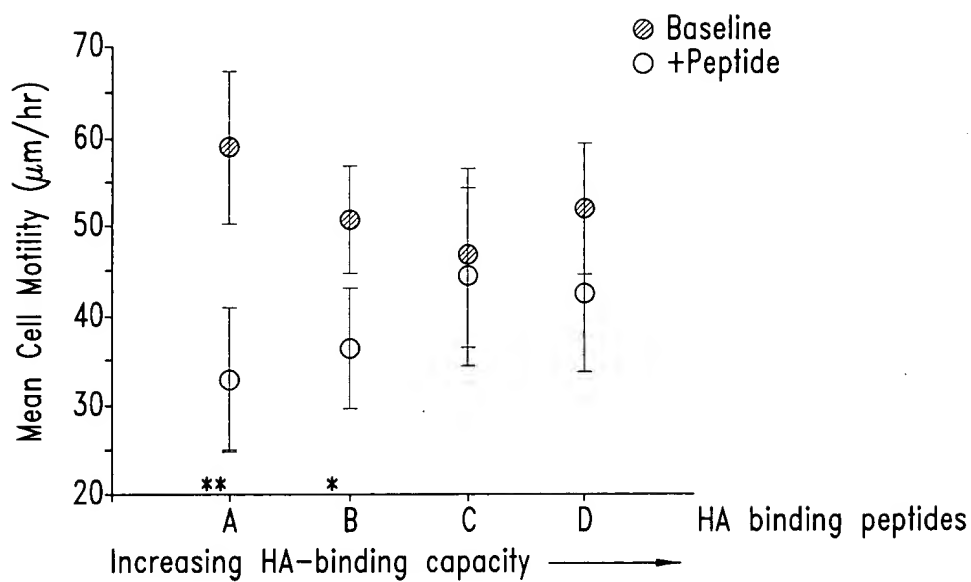


Fig. 26B

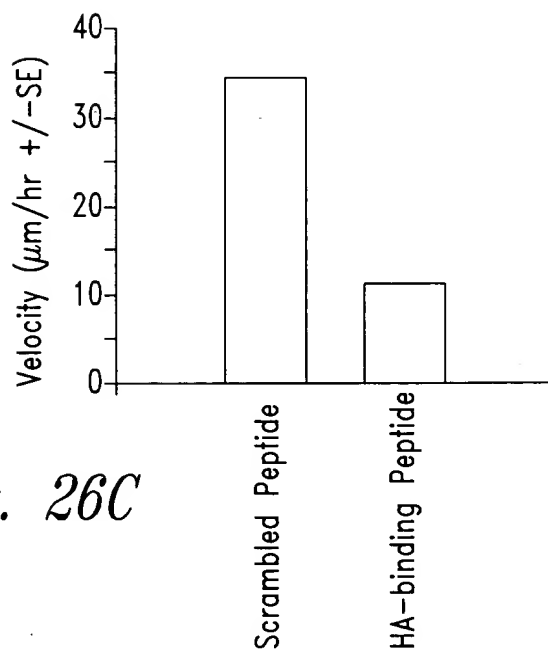


Fig. 26C

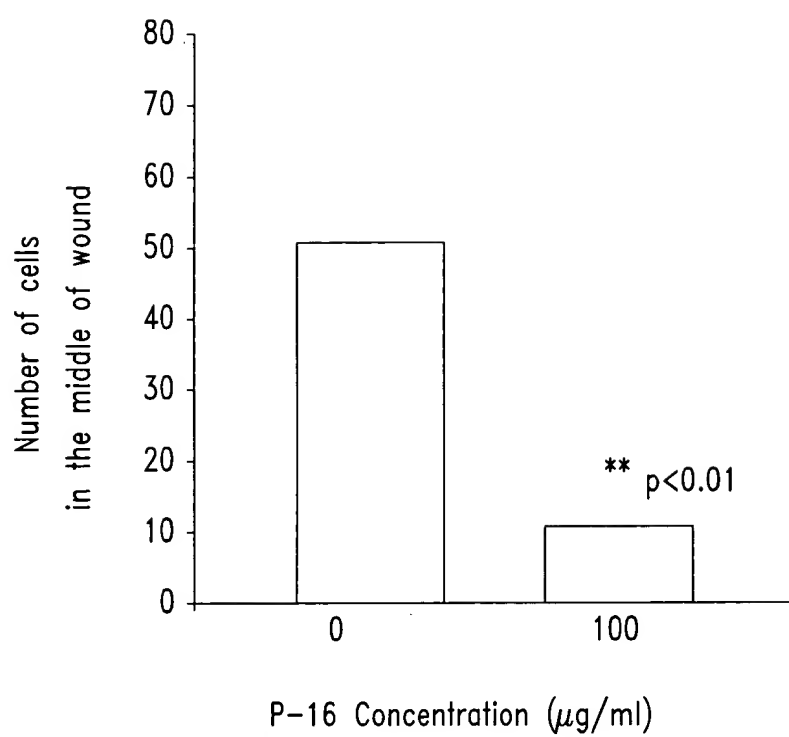


Fig. 27

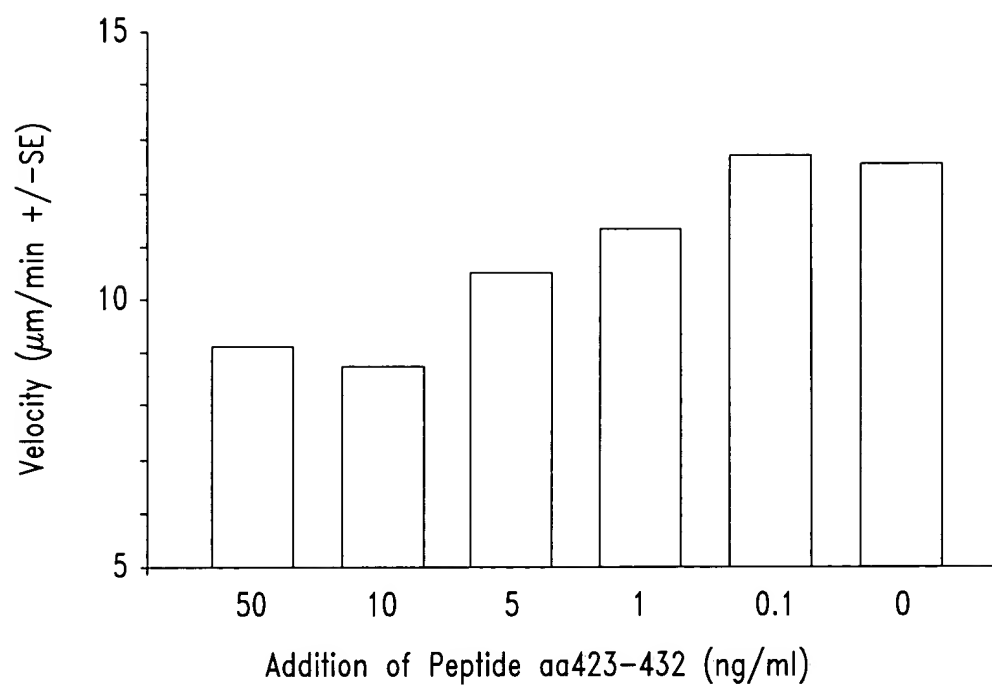


Fig. 28

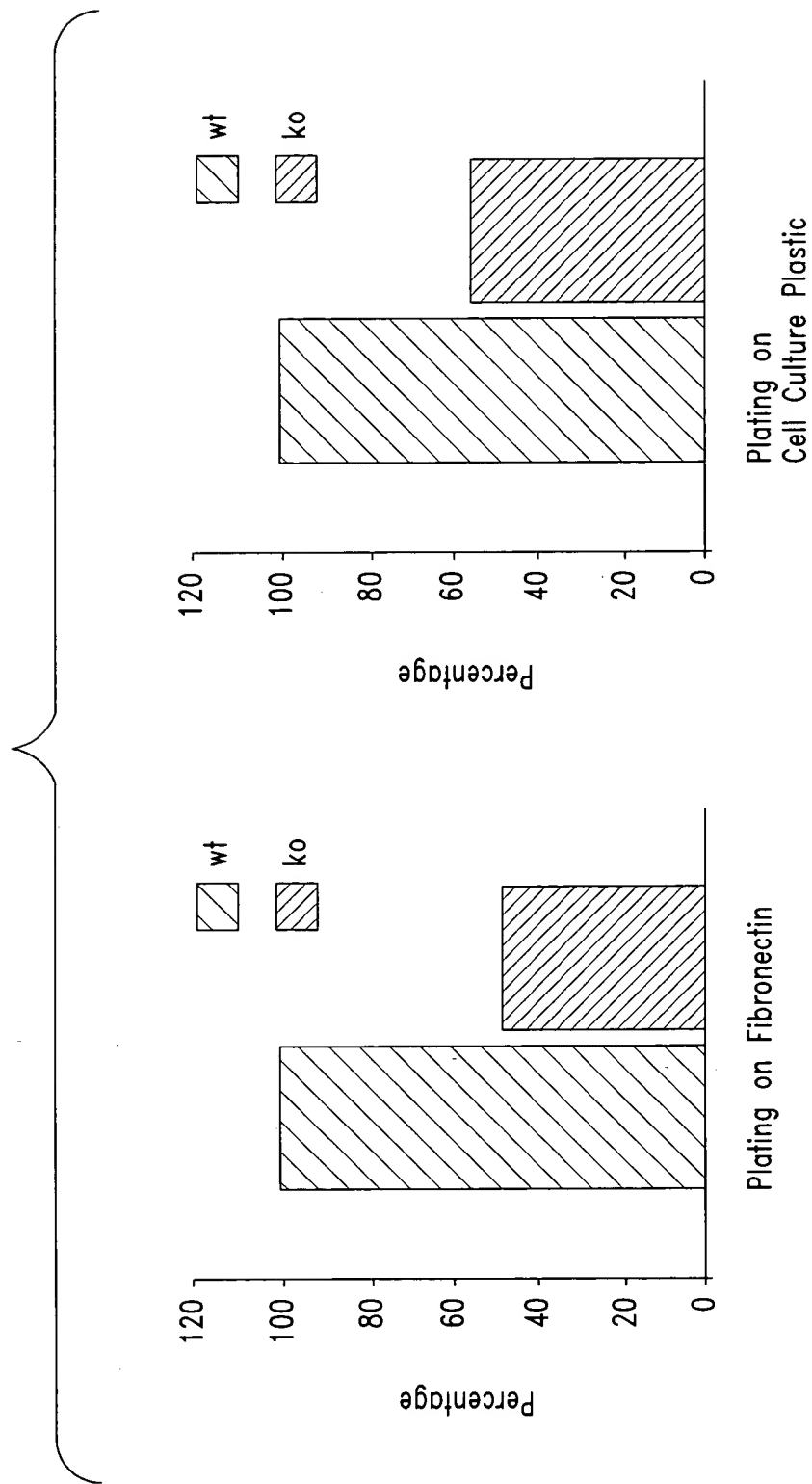


Fig. 29

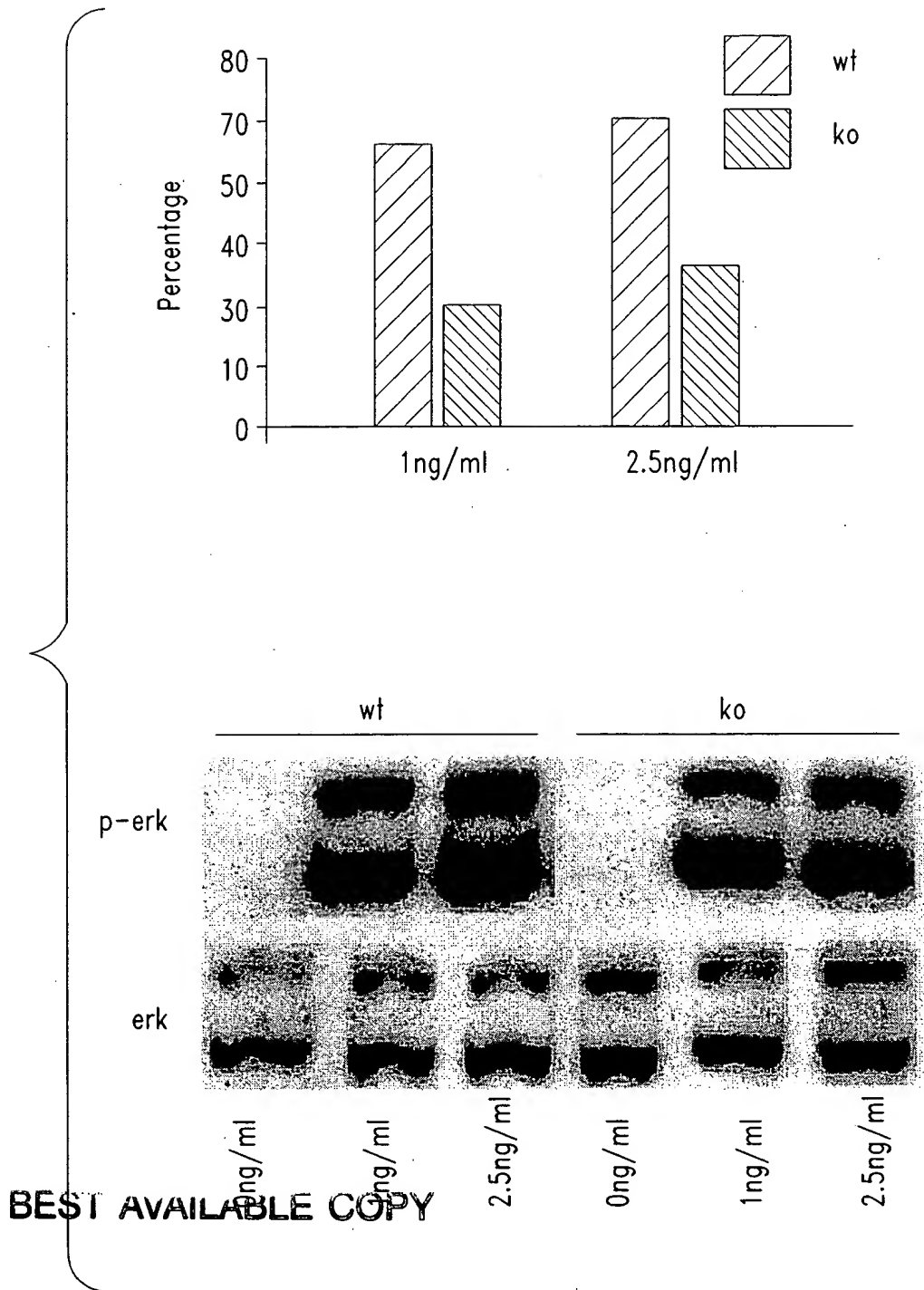


Fig. 30

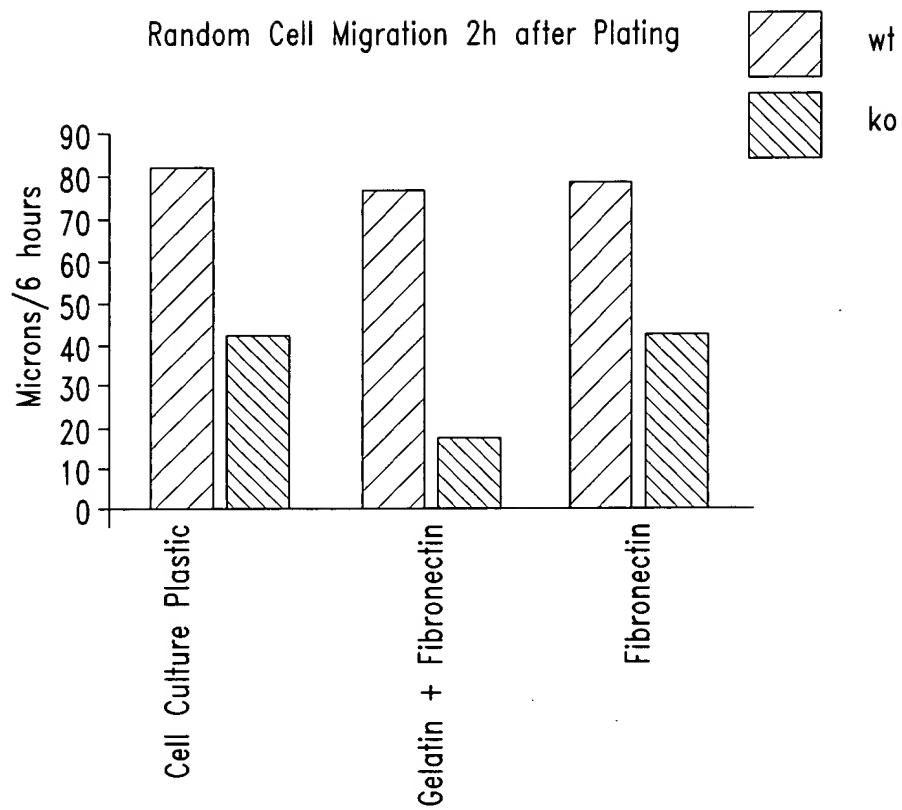


Fig. 31

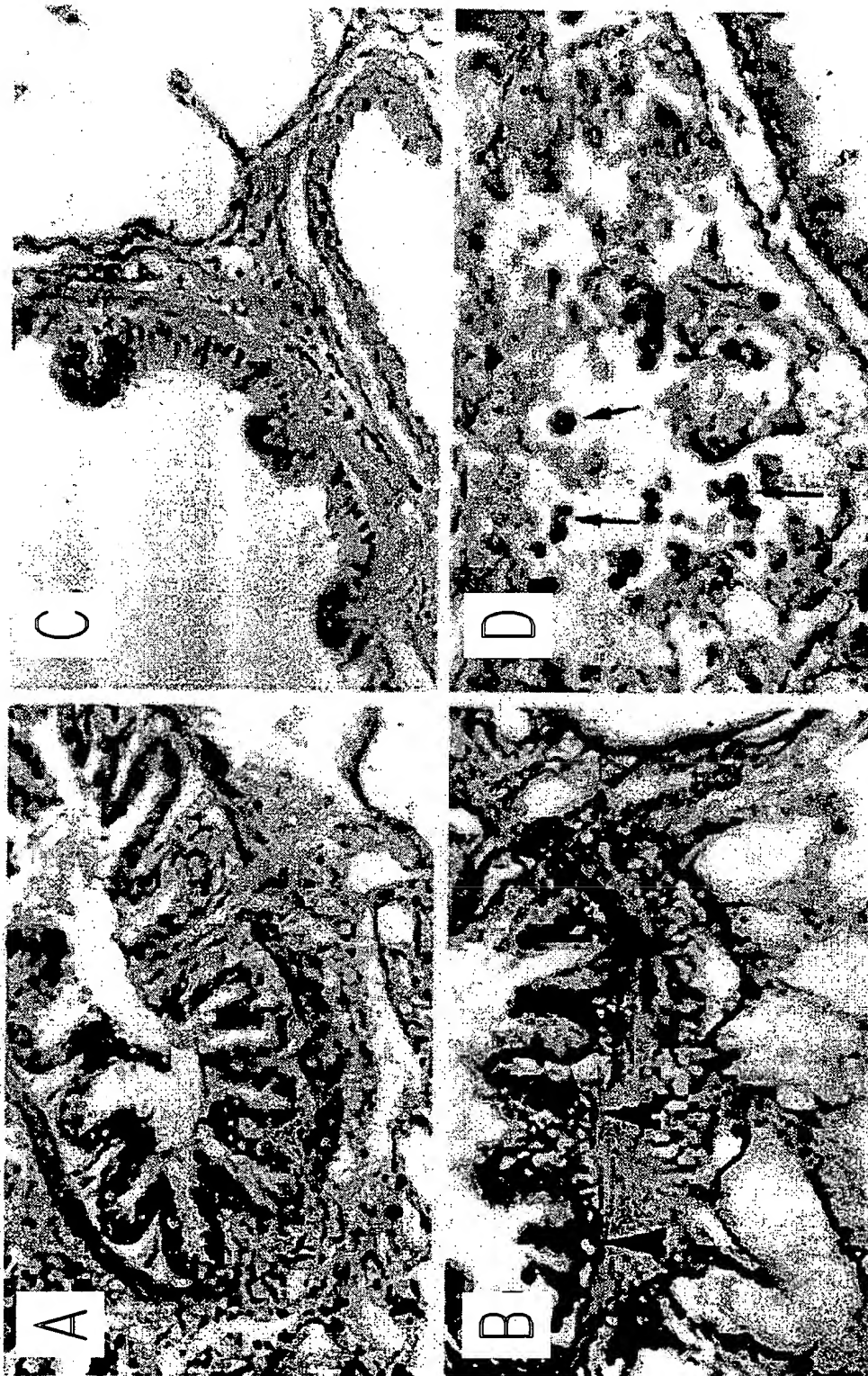


Fig. 32

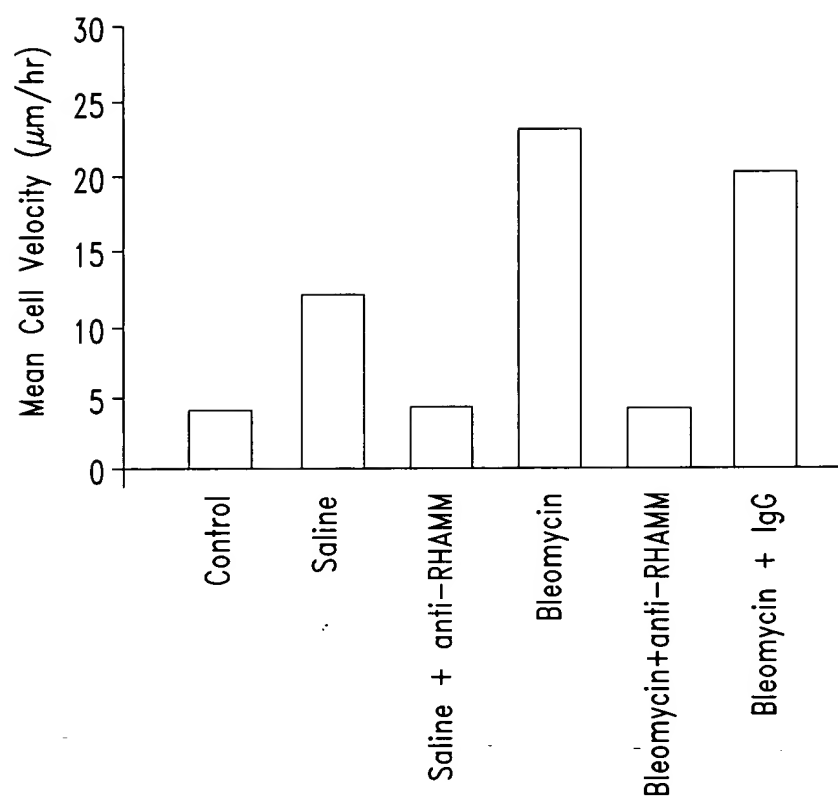


Fig. 33

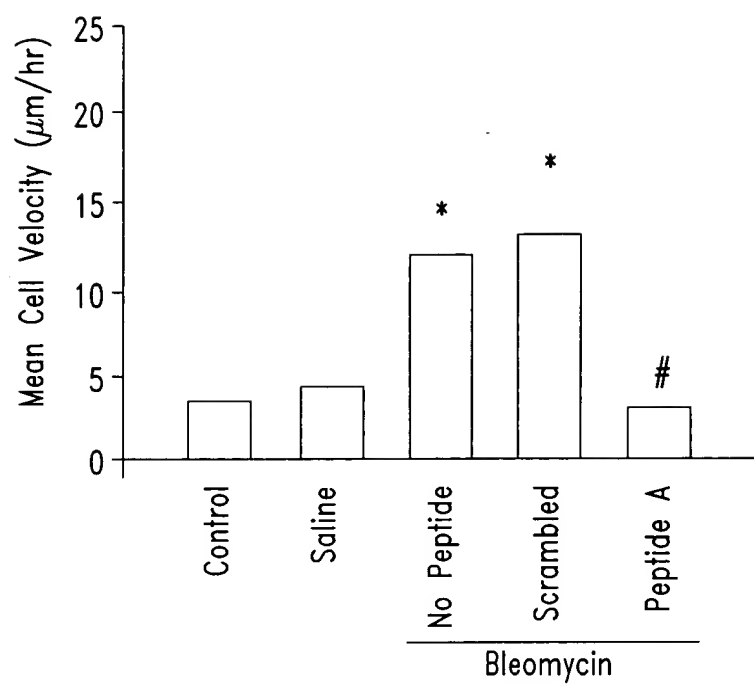


Fig. 34

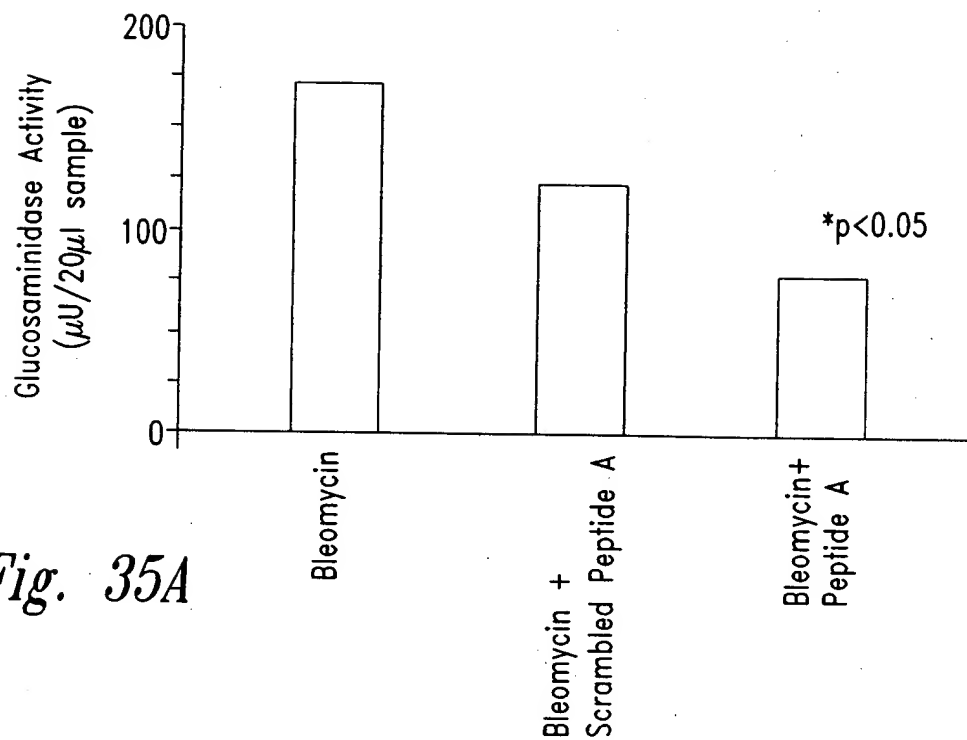


Fig. 35A

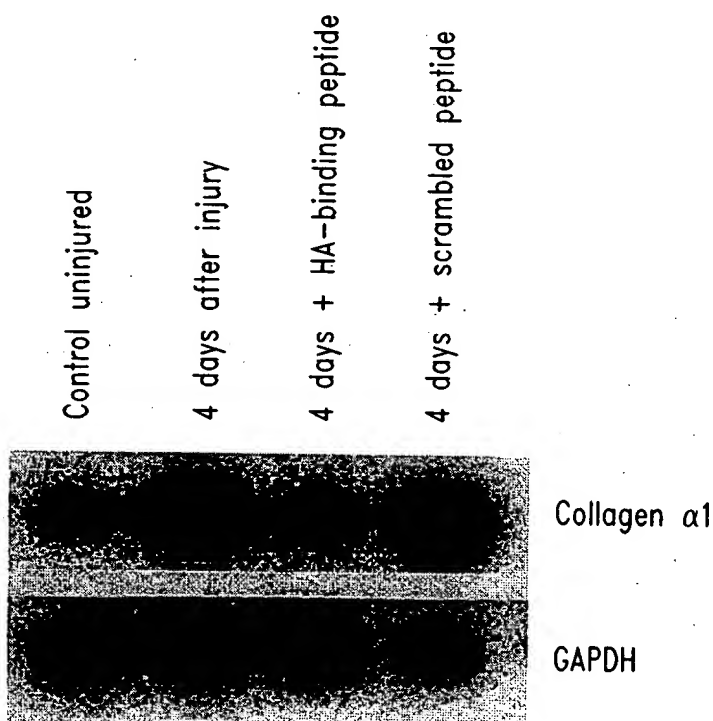


Fig. 35B

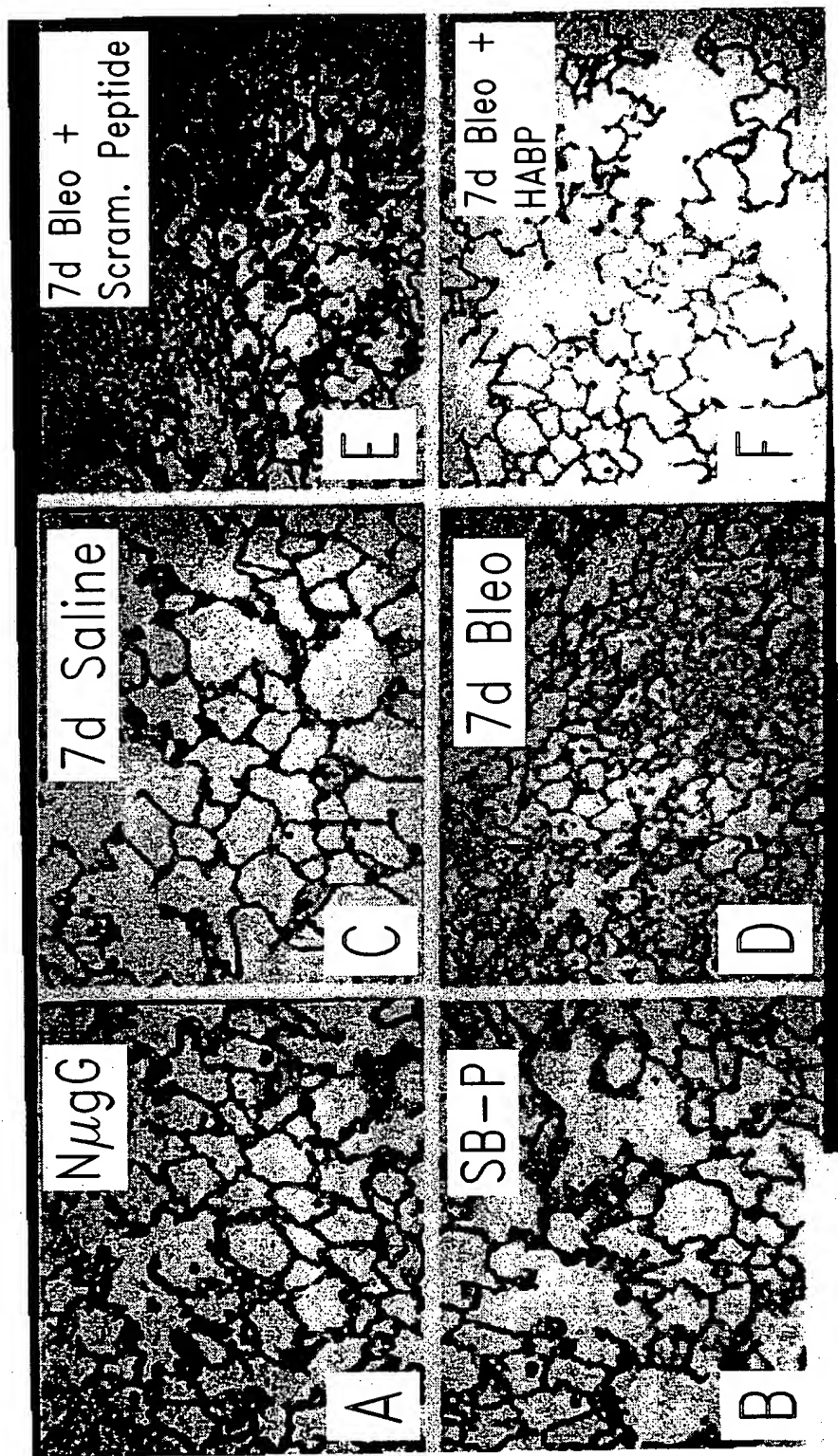


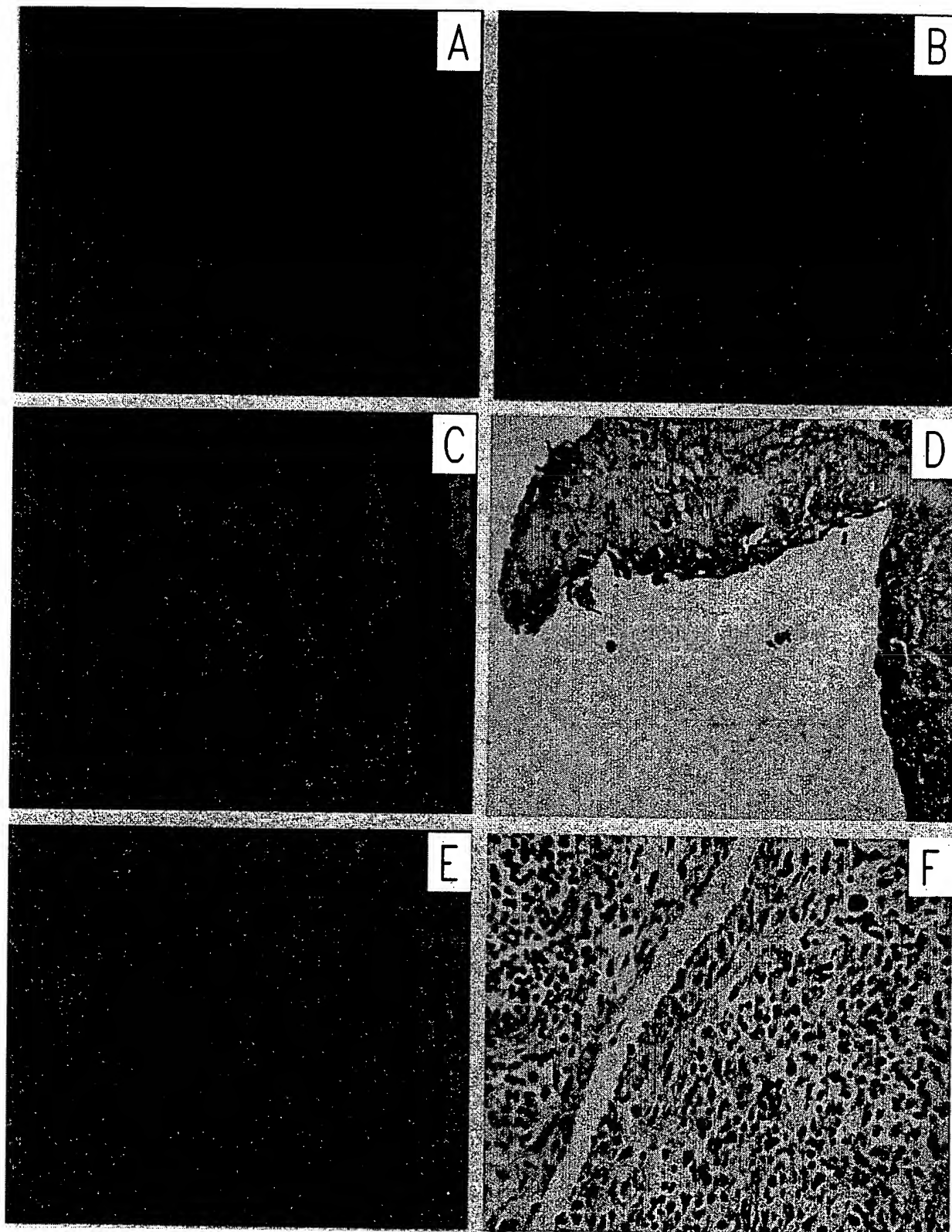
Fig. 36

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Patient	% of total X4+ cells	% of total V5+ cells	Neutrophils			Monocytes/macrophages			T cells		
			% of total cells	% of X4+ cells	% of V5+ cells	% of total cells	% of X4+ cells	% of V5+ cells	% of total cells	% of X4+ cells	% of V5+ cells
W.H.	ND	50.7	70.5	81.2	ND	21.8	87.1	66.4	6.7	11.7	13.0
M.T.	74.6	20.7	80.7	ND	9.9	11.2	89.6	ND	9.0	<2.0	ND
L.S.	43.9	34.4	ND	ND	ND	8.5	ND	53.8	20.4	5.3	<2.0
S.M.	67.6	4.0	67.3	80.9	ND	ND	ND	ND	3.0	10.0	<2.0
M.M.	19.2	19.6	25.2	68.3	ND	ND	ND	ND	2.7	4.5	8.0
D.D.	35.7	31.2	40.7	99.3	ND	ND	ND	ND	6.9	<2.0	9.9
P.B. (r)	77.4	71.8	ND	ND	ND	9.2	99.8	88.3	4.4	13.0	33.2
P.B. (l)	85.0	82.3	ND	ND	ND	12.8	99.4	58.3	3.4	11.0	30.2
S.L.	51.6	45.5	61.7	92.1	77.2	8.8	73.4	85.6	24.0	6.0	9.0
R.C.	10.6	6.7	54.1	63.8	13.8	5.6	50.3	43.9	6.3	8.5	11.9
N.N.	27.9	10.3	44.1	54.6	21.4	3.5	77.1	49.4	6.8	33.1	22.2
M.G.	85.48	84.63	86.7	99.6	99.5	5.52	98.7	98.9	6.36	4.8	7.6

- ND - non-determined
- (r) - right knee
- (l) - left knee

Fig. 37



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Fig. 38

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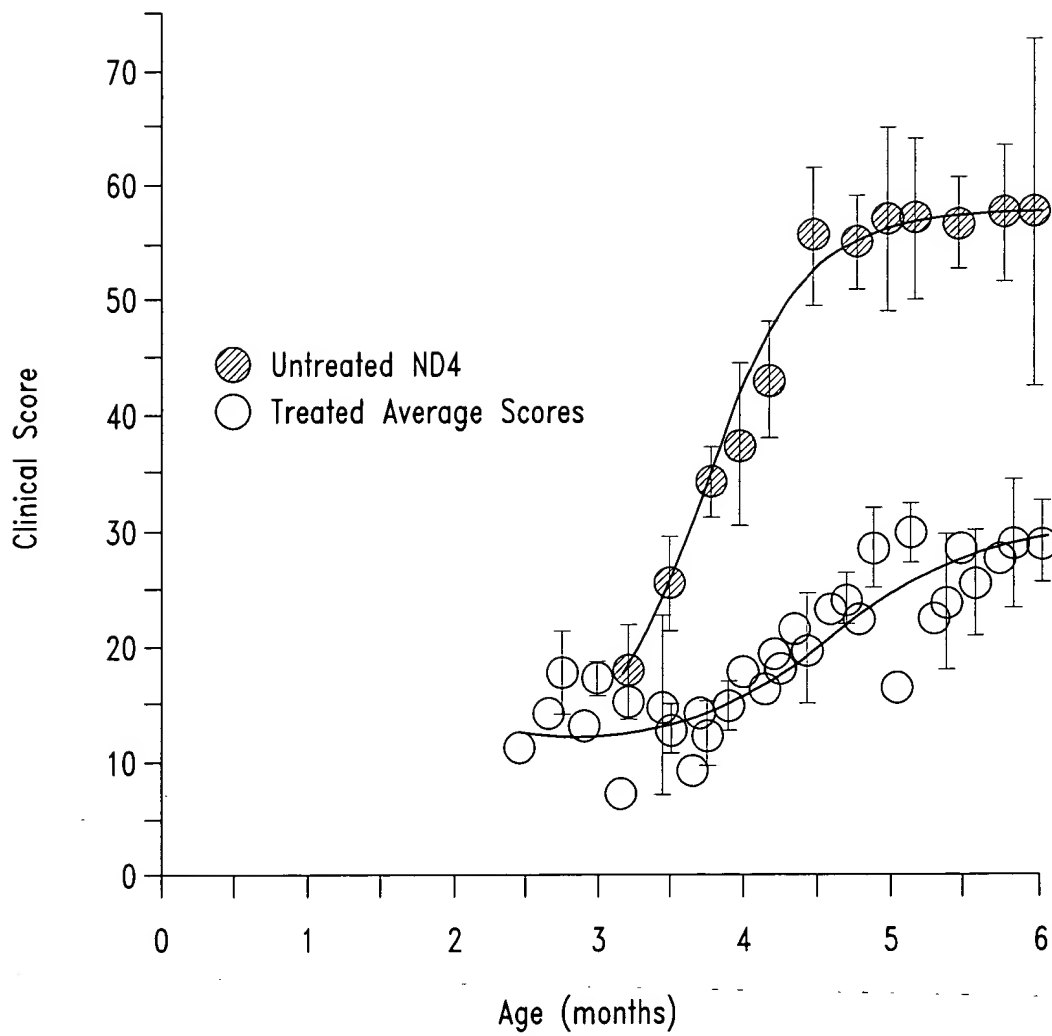


Fig. 39

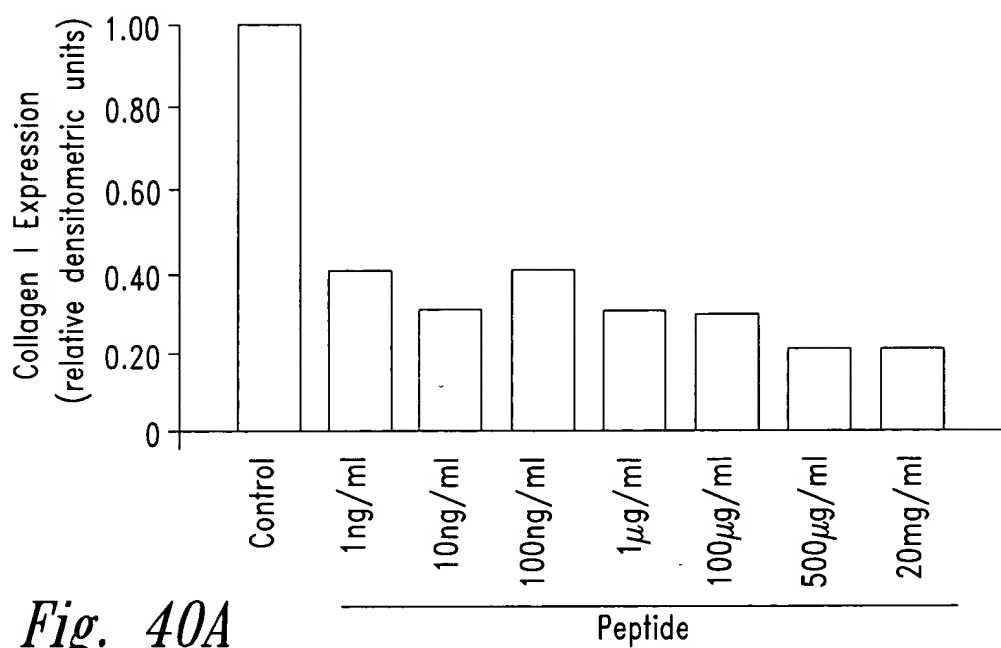


Fig. 40A

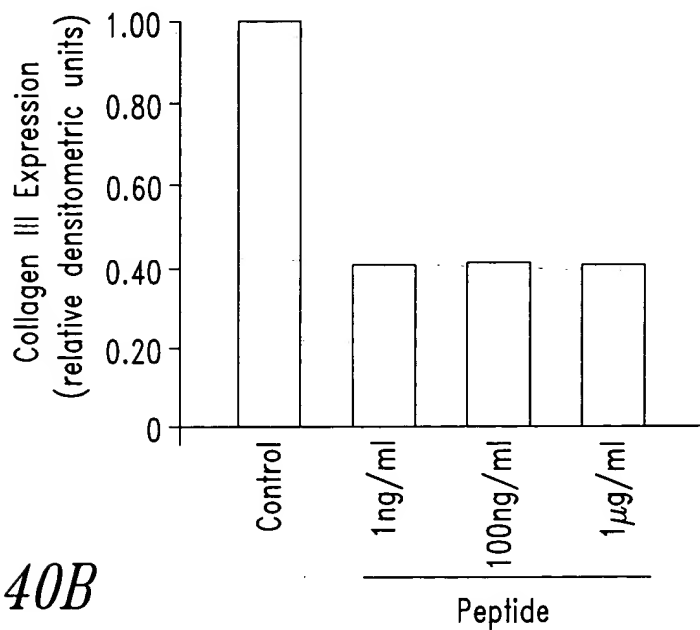


Fig. 40B

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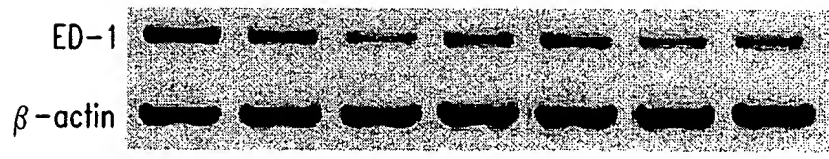
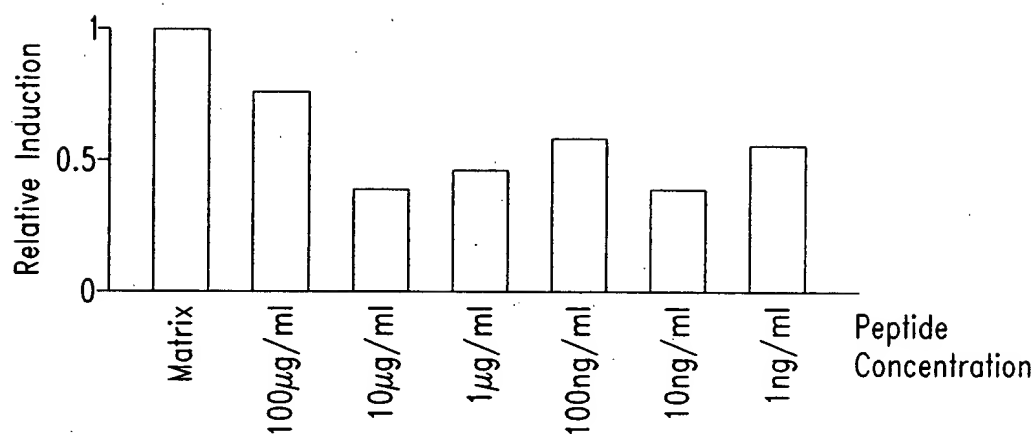


Fig. 41

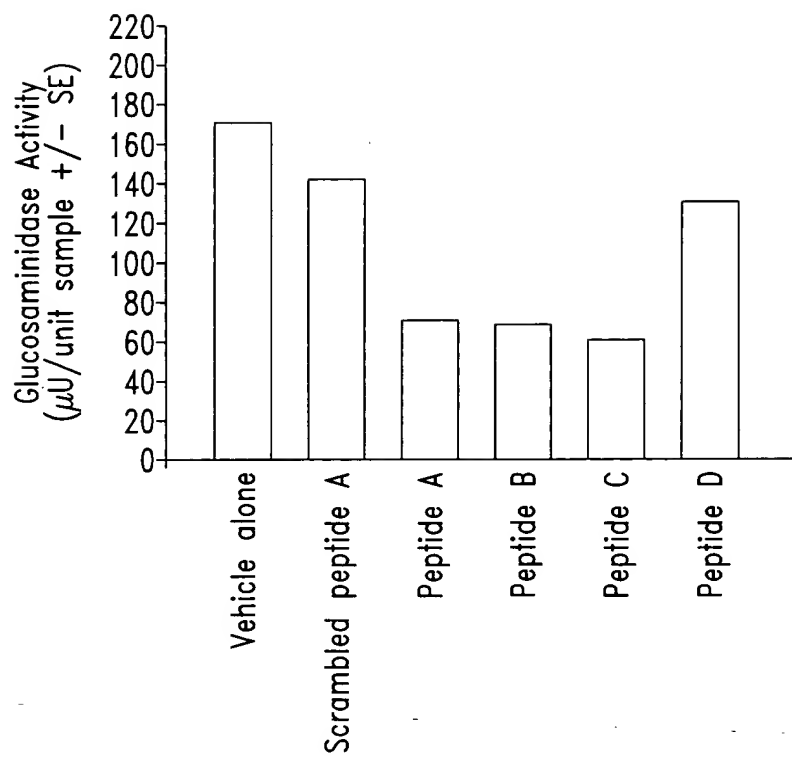


Fig. 42

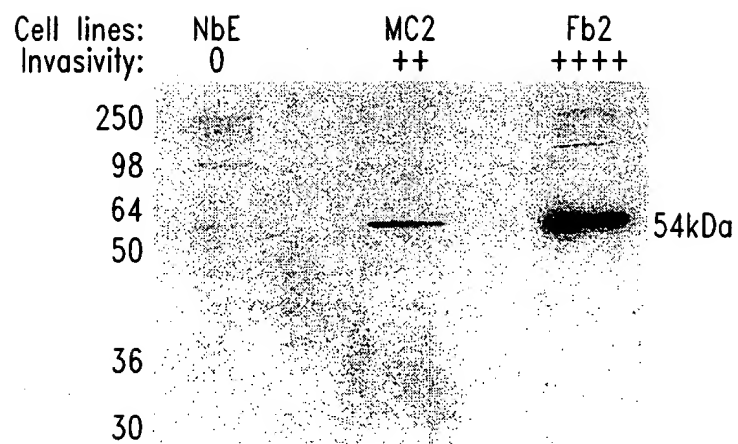


Fig. 43A

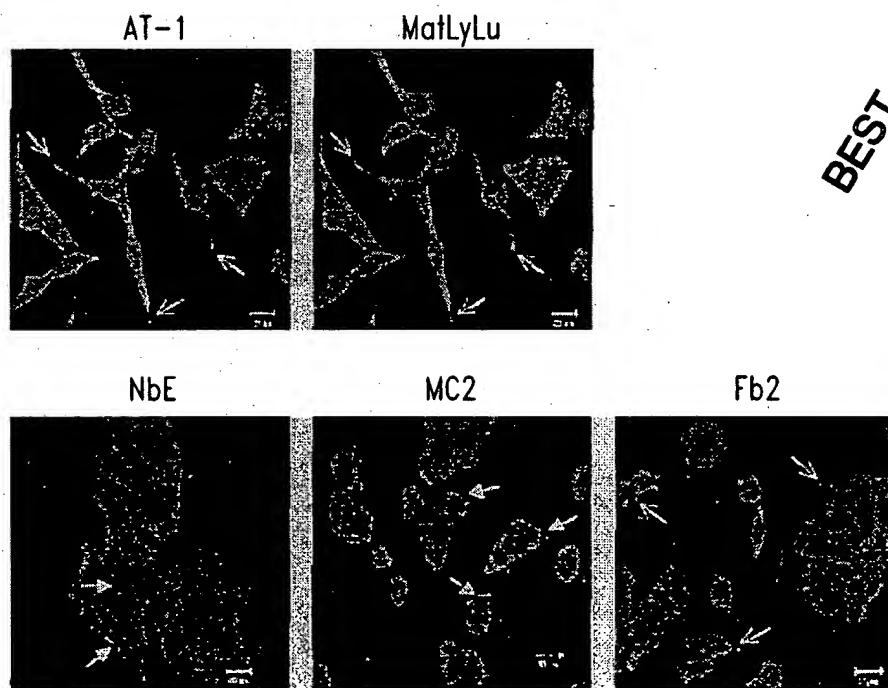


Fig. 43B

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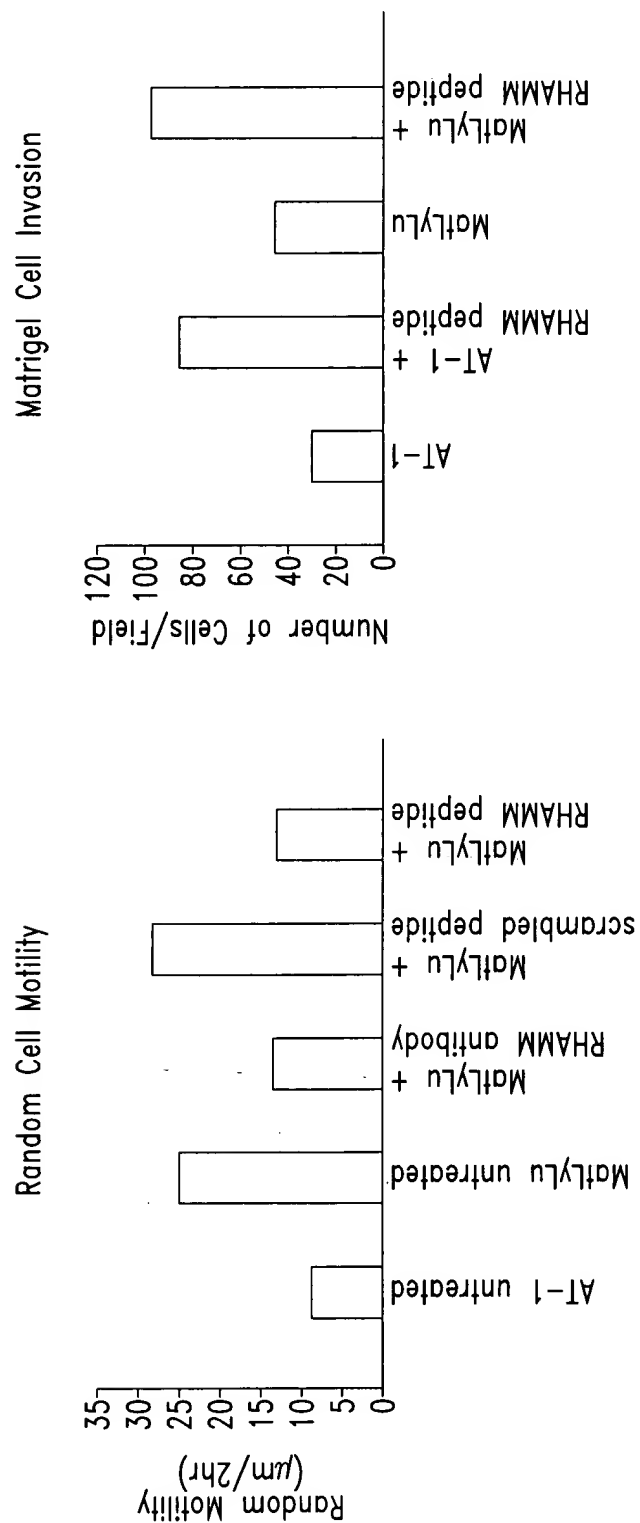


Fig. 44A

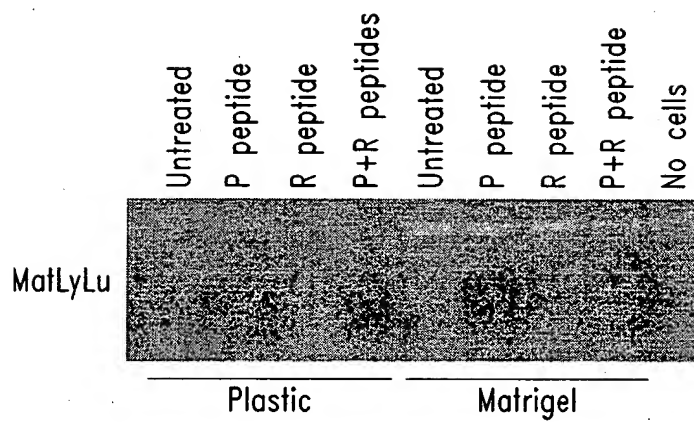
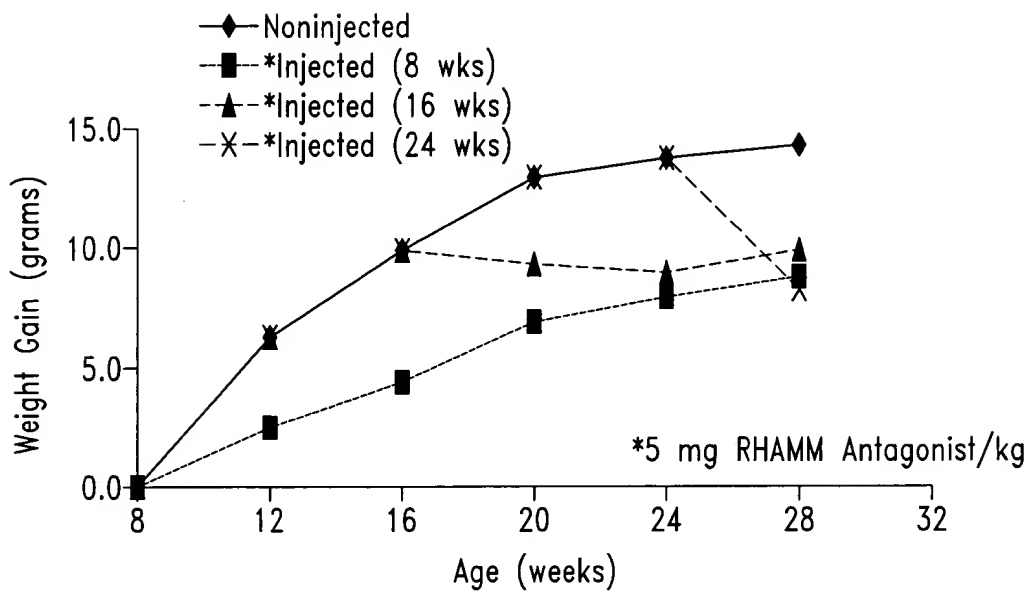


Fig. 44B

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NZB/W Mice (N=10/group)



Note: This effect is not being seen with NOD mice

Fig. 45

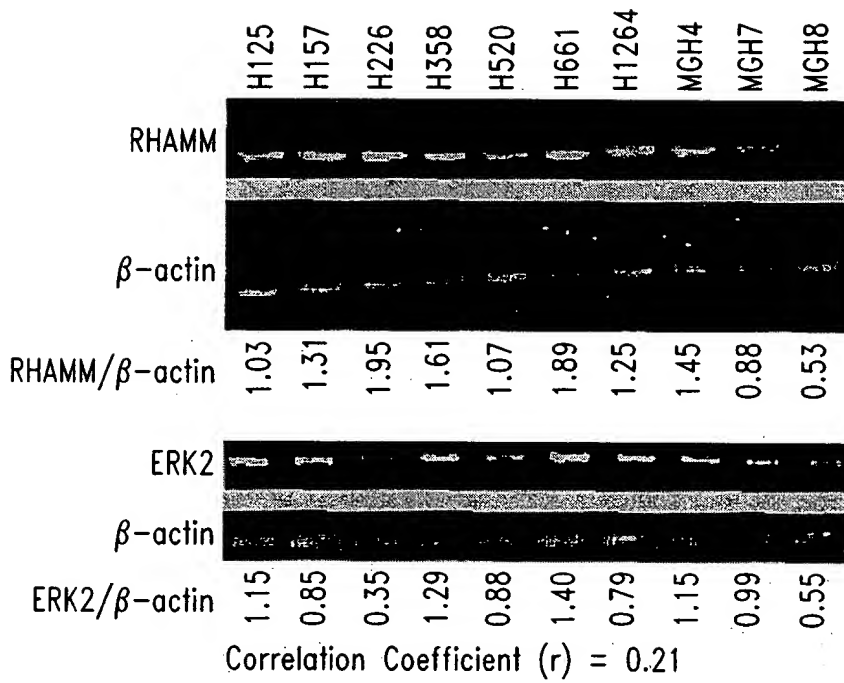


Fig. 46A

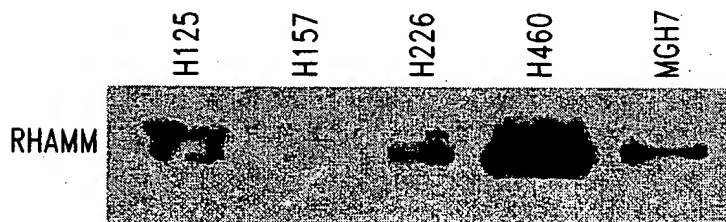


Fig. 46B

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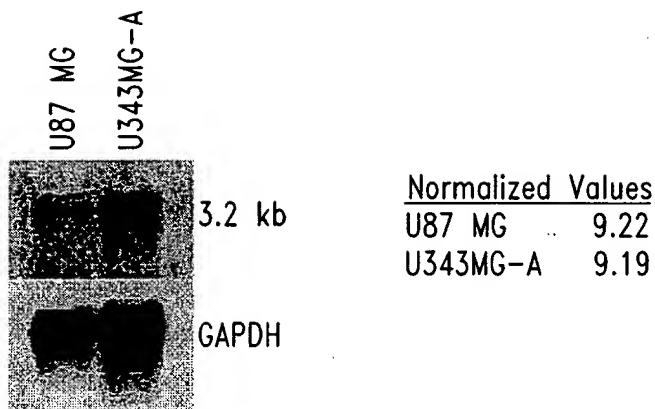


Fig. 47A

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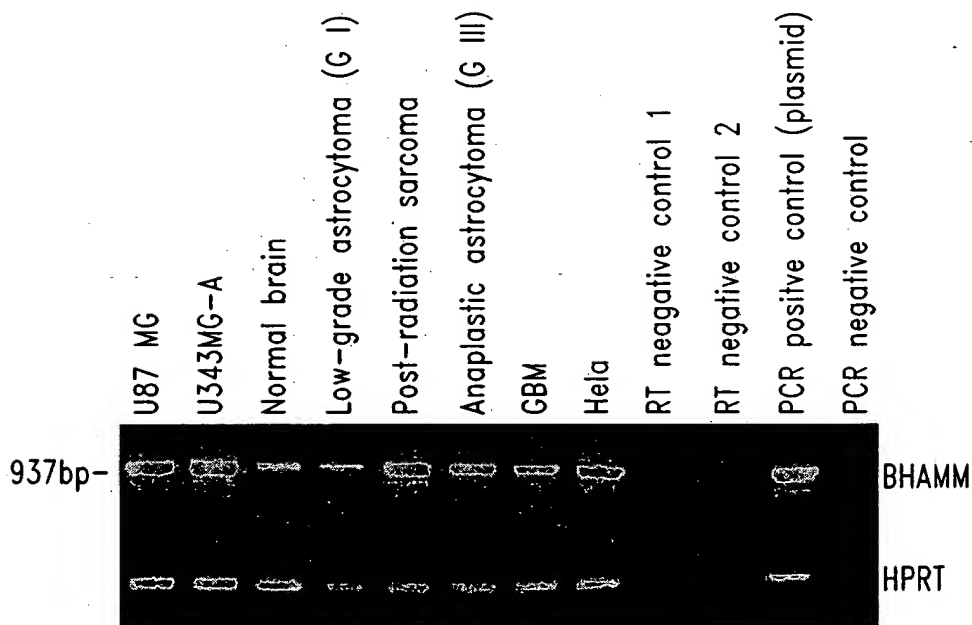


Fig. 47B

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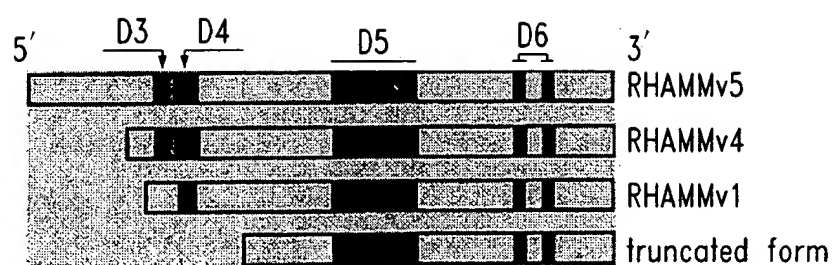


Fig. 48A

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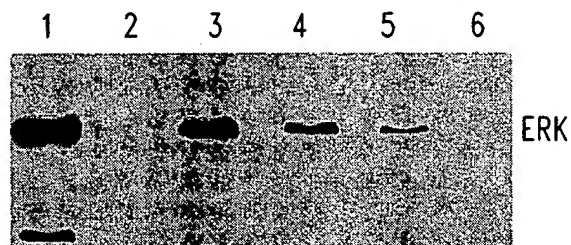


Fig. 48B

RHAMM binding protein cDNA (RABP) (partial)

GAA TTC GCG GCG GCG TCG ACC AAC AAG CCC CCT GCT GTT TCC CCG GGG
 E F A A A S T N K P P A V S P G
 GTG GTC TCC CCA ACC TTT GAA CTT ACA AAT CTT CTA AAT CAT CCT GAC
 V V S P T F E L T N L L N H P D
 CAT TAT GTA GAA ACA GAG AAC ATT CAG CAT CTC ACA GAC CCG GCT CTA
 H Y V E I E N I Q H L T D P A L
 GCA CAT GTG GAT AGA ATA AGC GAA GCC CGG AAA CTG AGT ATG GGA TCT
 A H V D R I S Q A R K L S M G S
 GAT GAT GCT GCC TAC ACA CAA GCT CTG CTG GTG CAC CAG AAG GCC AGG
 D D A A Y T Q A L L V H Q K A R
 ATG GAA CGG CTT CAA AGA GAG CTC GAG ATG CAA AAG AAA AAG CTG GAT
 M E R L Q R E L E M Q K K K L D
 AAA CTC AAA TCT GAG GTC AAT GAG ATG GAA AAT AAT CTA ACT CGA AGG
 K L K S E V N E M E N N L T R R
 CGC CTG AAG AGA TCA AAT TCC ATT TCC CAG ATA CCG TCA CTC GAA GAA
 R L K R S N S I S Q I P S L E E
 ATG CAG CAG TTG AGA AGT TGT AAT AGA CAA CTC CAG ATT GAC ATT GAC
 M Q Q L R S C N R Q L Q I D I D
 TTT GAC TGC TTA ACC AAA GAA ATT GCA TCT TTT TCA AGC CCG AGG ACC
 F D C L T K E I A S F S S P R T
 ACA TTT TAA CCC CAG CGC TAT TCA TAA CTT TTA TGA CAA TAT TGG ATT
 T F *
 TGT AGG CCC TGT GCC ACC AAA ACC CAA AGA TCA AAG GTC CAC CAT CAA
 AGG TCG ACG CGG

Fig. 49A

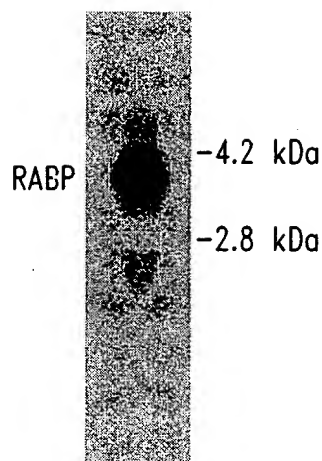


Fig. 49B

BEST AVAILABLE COPY

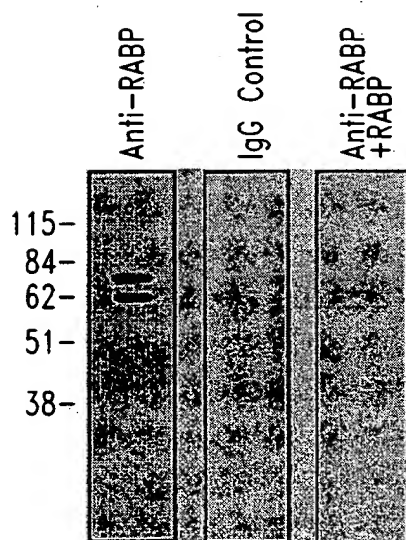


Fig. 49C

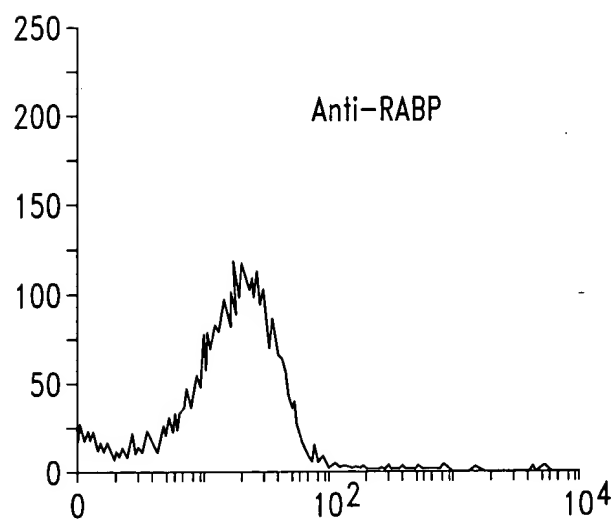
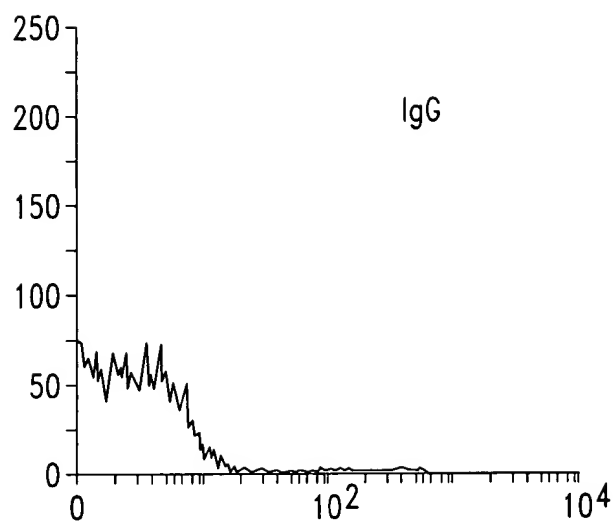
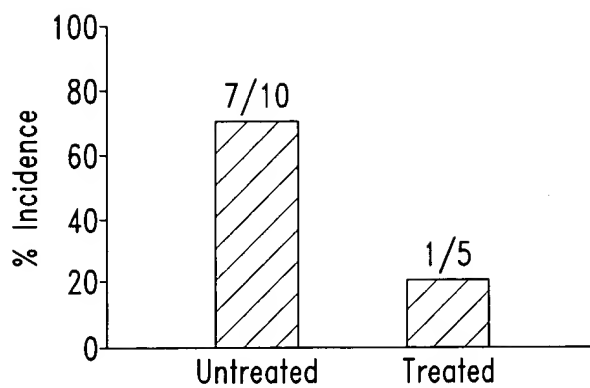
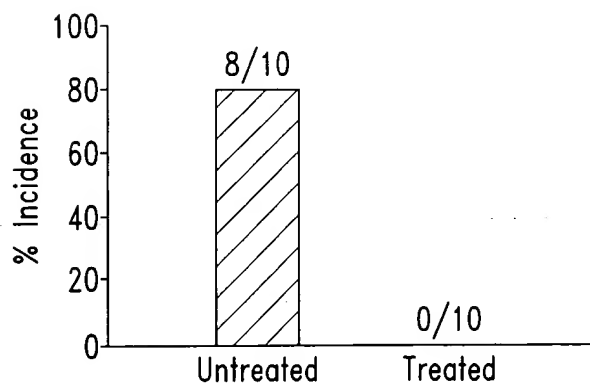


Fig. 49D



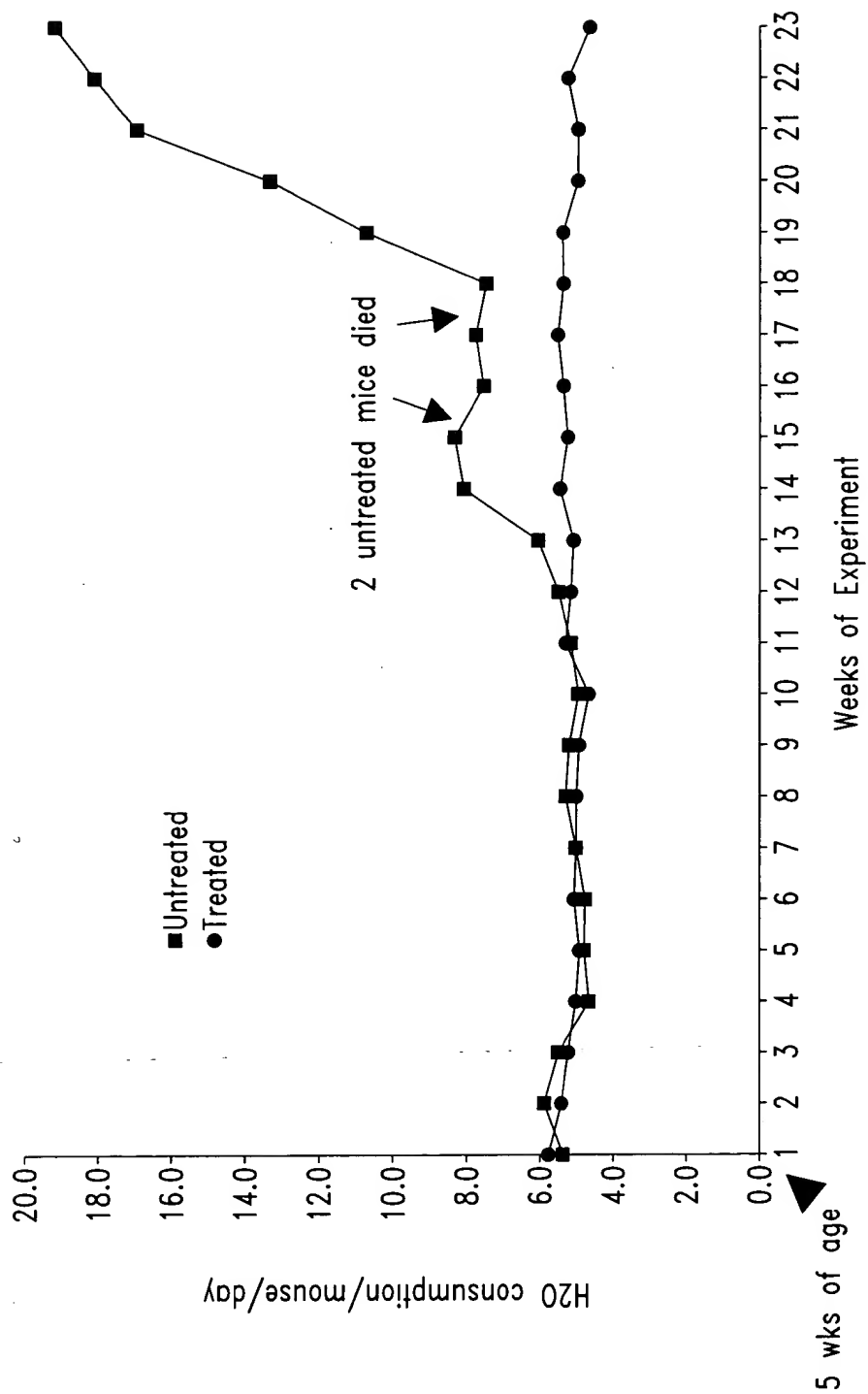
Note: normal blood glucose level = 99–140
Incidence of abnormal blood glucose level in NOD mice

Fig. 51



Incidence of abnormal urine glucose level in NOD mice

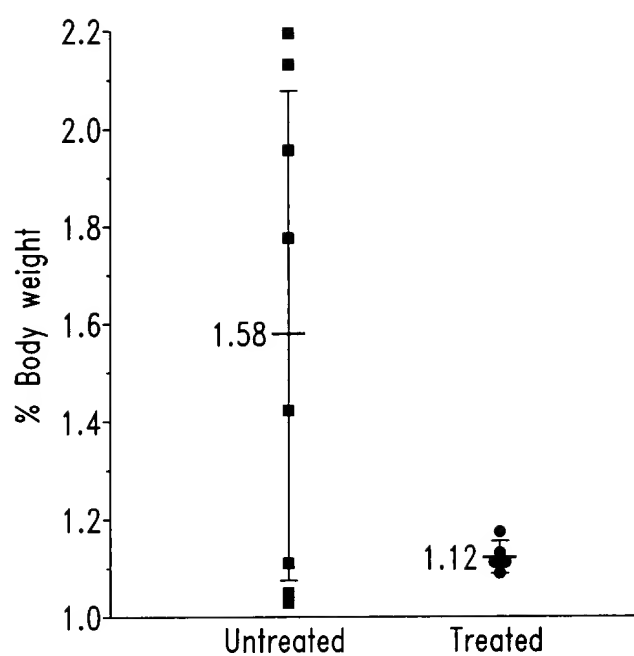
Fig. 52



Note: Increased H₂O consumption indicative of Diabetes Insipidus, a complication of Diabetes Mellitus

Effect of P-16 peptide on water consumption in NOD mice

Fig. 53



Note: 2 untreated animals died during the course of experiment
Effect of P- 16 peptide on kidney weight in NOD mice

Fig. 54